

# FLIR Systems Thermography Product Catalog 2015

A photograph from our company archives Inspection of a rotary kiln at Domnarvets Jernverk (Domnarvet's Ironworks) in Sweden in the early 1970s, using an AGA Thermovision 680.





# Table of contents

---

<b>1</b>	<b>Important information.....</b>	<b>1</b>
1.1	Disclaimers.....	1
1.1.1	Legal disclaimer.....	1
1.1.2	Usage statistics.....	1
1.1.3	Changes to registry.....	1
1.1.4	U.S. Government Regulations.....	2
1.1.5	Copyright.....	2
1.1.6	Quality assurance.....	2
1.1.7	Patents.....	2
1.1.8	EULA Terms.....	2
1.1.9	EULA Terms.....	3
1.2	Safety information.....	3
1.3	Notice to user.....	9
1.3.1	User-to-user forums.....	9
1.3.2	Calibration.....	9
1.3.3	Accuracy.....	9
1.3.4	Disposal of electronic waste.....	10
1.3.5	Training.....	10
1.3.6	Documentation updates.....	10
1.3.7	Important note about this manual.....	10
1.3.8	Note about authoritative versions.....	10
1.3.9	Software updates.....	10
1.3.10	Additional license information.....	10
1.4	Laser.....	11
1.4.1	Laser warning label.....	11
1.4.2	Laser rules and regulations.....	11
<b>2</b>	<b>About FLIR Systems.....</b>	<b>12</b>
2.1	More than just an infrared camera.....	14
2.2	Sharing our knowledge.....	14
2.3	Supporting our customers.....	14
2.4	A few images from our facilities.....	14
<b>3</b>	<b>Infrared cameras.....</b>	<b>16</b>
3.1	FLIR ix series.....	17
3.1.1	FLIR i3.....	18
3.1.2	FLIR i5.....	21
3.2	FLIR Ex series.....	24
3.2.1	FLIR E4.....	25
3.2.2	FLIR E5.....	28
3.2.3	FLIR E6.....	31
3.3	FLIR Exx series.....	34
3.3.1	FLIR E33.....	35
3.3.2	FLIR E40.....	40
3.3.3	FLIR E40 (incl. Wi-Fi).....	45
3.3.4	FLIR E40 with SC kit (incl. Wi-Fi and 45° lens).....	50
3.3.5	FLIR E40 with SC kit (incl. Wi-Fi).....	55
3.3.6	FLIR E40bx (incl. Wi-Fi).....	60
3.3.7	FLIR E50.....	65
3.3.8	FLIR E50 (incl. Wi-Fi).....	70
3.3.9	FLIR E50bx (incl. Wi-Fi).....	75
3.3.10	FLIR E60.....	80
3.3.11	FLIR E60 (incl. Wi-Fi).....	85
3.3.12	FLIR E60bx (incl. Wi-Fi).....	90
3.3.13	FLIR E63 (incl. Wi-Fi).....	95
3.4	FLIR T4xx series.....	100
3.4.1	FLIR T420 (incl. Wi-Fi).....	101

## Table of contents

3.4.2	FLIR T420 (incl. Wi-Fi and 15° lens) .....	107
3.4.3	FLIR T420 (incl. Wi-Fi and 45° lens) .....	113
3.4.4	FLIR T420 with SC kit (incl. Wi-Fi, incl. 45° lens).....	119
3.4.5	FLIR T420bx (incl. Wi-Fi) .....	125
3.4.6	FLIR T430sc (incl. Wi-Fi) .....	131
3.4.7	FLIR T430sc with SC kit (incl. Wi-Fi).....	137
3.4.8	FLIR T440 (incl. Wi-Fi) .....	143
3.4.9	FLIR T440bx (incl. Wi-Fi) .....	149
3.4.10	FLIR T450sc (incl. Wi-Fi) .....	155
3.4.11	FLIR T460 (incl. Wi-Fi) .....	161
3.5	FLIR T6xx series .....	167
3.5.1	FLIR T600 15° (incl. Wi-Fi) .....	168
3.5.2	FLIR T600 25° (incl. Wi-Fi) .....	174
3.5.3	FLIR T600 45° (incl. Wi-Fi) .....	180
3.5.4	FLIR T600bx 25° (incl. Wi-Fi).....	186
3.5.5	FLIR T600bx 45° (incl. Wi-Fi).....	192
3.5.6	FLIR T610 15° (incl. Wi-Fi) .....	198
3.5.7	FLIR T610 25° (incl. Wi-Fi) .....	204
3.5.8	FLIR T610 45° (incl. Wi-Fi) .....	210
3.5.9	FLIR T620 15° (incl. Wi-Fi) .....	216
3.5.10	FLIR T620 25° (incl. Wi-Fi) .....	222
3.5.11	FLIR T620 45° (incl. Wi-Fi) .....	228
3.5.12	FLIR T620bx 15° (incl. Wi-Fi).....	234
3.5.13	FLIR T620bx 25° (incl. Wi-Fi).....	240
3.5.14	FLIR T620bx 45° (incl. Wi-Fi).....	246
3.5.15	FLIR T630 15° (incl. Wi-Fi) .....	252
3.5.16	FLIR T630 25° (incl. Wi-Fi) .....	258
3.5.17	FLIR T630 45° (incl. Wi-Fi) .....	264
3.5.18	FLIR T630sc 15° (incl. Wi-Fi).....	270
3.5.19	FLIR T630sc 25° (incl. Wi-Fi).....	276
3.5.20	FLIR T630sc 45° (incl. Wi-Fi).....	282
3.5.21	FLIR T640 15° (incl. Wi-Fi) .....	288
3.5.22	FLIR T640 25° (incl. Wi-Fi) .....	294
3.5.23	FLIR T640 45° (incl. Wi-Fi) .....	300
3.5.24	FLIR T640bx 15° (incl. Wi-Fi).....	306
3.5.25	FLIR T640bx 25° (incl. Wi-Fi).....	312
3.5.26	FLIR T640bx 45° (incl. Wi-Fi).....	318
3.5.27	FLIR T650sc 15° (incl. Wi-Fi).....	324
3.5.28	FLIR T650sc 25° (incl. Wi-Fi).....	330
3.5.29	FLIR T650sc 45° (incl. Wi-Fi).....	336
3.5.30	FLIR T660 15° (incl. Wi-Fi) .....	342
3.5.31	FLIR T660 25° (incl. Wi-Fi) .....	348
3.5.32	FLIR T660 45° (incl. Wi-Fi) .....	354
3.6	FLIR GF3xx series .....	360
3.6.1	FLIR GF300 14.5° .....	361
3.6.2	FLIR GF300 14.5° Fixed lens.....	366
3.6.3	FLIR GF300 24° .....	370
3.6.4	FLIR GF300 24° Fixed lens .....	375
3.6.5	FLIR GF304 14.5° .....	379
3.6.6	FLIR GF304 14.5° Fixed lens.....	384
3.6.7	FLIR GF304 24° .....	389
3.6.8	FLIR GF304 24° Fixed lens .....	394
3.6.9	FLIR GF306 14.5° .....	399
3.6.10	FLIR GF306 14.5° Fixed lens.....	404
3.6.11	FLIR GF306 24° .....	409



3.6.12	FLIR GF306 24° Fixed lens .....	414
3.6.13	FLIR GF309 14.5° .....	419
3.6.14	FLIR GF309 14.5° Fixed lens.....	424
3.6.15	FLIR GF309 24° .....	429
3.6.16	FLIR GF309 24° Fixed lens .....	434
3.6.17	FLIR GF320 14.5° .....	439
3.6.18	FLIR GF320 14.5° Fixed lens.....	444
3.6.19	FLIR GF320 24° .....	449
3.6.20	FLIR GF320 24° Fixed lens .....	454
3.6.21	FLIR GF335 24° .....	459
3.6.22	FLIR GF343 24° Fixed lens .....	464
3.6.23	FLIR GF346 14.5° .....	468
3.6.24	FLIR GF346 14.5° Fixed lens.....	473
3.6.25	FLIR GF346 24° .....	478
3.6.26	FLIR GF346 24° Fixed lens .....	483
3.7	FLIR G300 series .....	488
3.7.1	FLIR G300 a 14.5° fixed lens .....	489
3.7.2	FLIR G300 a 24° fixed lens.....	492
3.7.3	FLIR G300 pt 14.5° NTSC .....	495
3.7.4	FLIR G300 pt 24° NTSC .....	498
3.7.5	FLIR G300 pt 14.5° PAL .....	501
3.7.6	FLIR G300 pt 24° PAL.....	504
3.8	ThermaCAM GasFindIR series .....	507
3.8.1	ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II PAL.....	508
3.8.2	ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II NTSC .....	511
3.8.3	ThermaCAM™ GasFindIR 25 mm lens Class I Div II PAL .....	514
3.8.4	ThermaCAM™ GasFindIR 25 mm lens Class I Div II NTSC .....	517
3.9	FLIR Kxx series.....	520
3.9.1	FLIR K45 .....	521
3.9.2	FLIR K55 .....	525
3.10	FLIR Cx series .....	529
3.10.1	FLIR C2 .....	530
3.10.2	FLIR C2 with educational kit.....	533
3.11	FLIR Ax5 series.....	536
3.11.1	FLIR A15 f=19 mm.....	537
3.11.2	FLIR A15 f=19 mm (7.5 Hz).....	541
3.11.3	FLIR A15 f=9 mm .....	544
3.11.4	FLIR A15 f=9 mm (7.5 Hz) .....	548
3.11.5	FLIR A15 f=9 mm with SC kit .....	551
3.11.6	FLIR A15 f=9 mm with SC kit (7.5 Hz) .....	555
3.11.7	FLIR A35 f=19 mm.....	559
3.11.8	FLIR A35 f=9 mm .....	563
3.11.9	FLIR A35 f=9 mm with SC kit .....	567
3.11.10	FLIR A5 f=5 mm .....	571
3.11.11	FLIR A5 f=5 mm (7.5 Hz) .....	575
3.11.12	FLIR A5 f=5 mm with SC kit.....	578
3.11.13	FLIR A5 f=5 mm with SC kit (7.5 Hz).....	582
3.11.14	FLIR A5 f=9 mm .....	586
3.11.15	FLIR A5 f=9 mm (7.5 Hz) .....	590
3.11.16	FLIR A65 f=13 mm.....	593
3.11.17	FLIR A65 f=13 mm (7.5 Hz).....	596
3.11.18	FLIR A65 f=13 mm with SC kit (7.5 Hz).....	600

## Table of contents

---

3.11.19	FLIR A65 f=25 mm	604
3.11.20	FLIR A65 f=25 mm (7.5 Hz)	607
3.12	FLIR AX series	610
3.12.1	FLIR AX8 9 Hz	611
3.13	FLIR A3xx series	615
3.13.1	FLIR A300	616
3.13.2	FLIR A300 (9 Hz)	620
3.13.3	FLIR A305sc	624
3.13.4	FLIR A310	627
3.13.5	FLIR A310 (9 Hz)	631
3.13.6	FLIR A310 ex 25°	635
3.13.7	FLIR A310 ex 45°	638
3.13.8	FLIR A315	641
3.13.9	FLIR A315 (9 Hz)	644
3.13.10	FLIR A320 Tempscreen	647
3.13.11	FLIR A320 Tempscreen (9 Hz)	651
3.13.12	FLIR A325sc	655
3.14	FLIR A3xxf series	658
3.14.1	FLIR A300f 25°	659
3.14.2	FLIR A300f 45°	662
3.14.3	FLIR A310f 15°	665
3.14.4	FLIR A310f 25°	669
3.14.5	FLIR A310f 45°	673
3.14.6	FLIR A310f 6°	677
3.14.7	FLIR A310f 90°	681
3.14.8	FLIR A315f 25°	685
3.14.9	FLIR A315f 45°	688
3.14.10	FLIR A315f 90°	691
3.15	FLIR A3xxpt series	694
3.15.1	FLIR A310pt 15° (9 Hz) NTSC	695
3.15.2	FLIR A310pt 15° (9 Hz) PAL	699
3.15.3	FLIR A310pt 15° NTSC	703
3.15.4	FLIR A310pt 15° PAL	707
3.15.5	FLIR A310pt 25° (9 Hz) NTSC	711
3.15.6	FLIR A310pt 25° (9 Hz) PAL	715
3.15.7	FLIR A310pt 25° NTSC	719
3.15.8	FLIR A310pt 25° PAL	723
3.15.9	FLIR A310pt 45° (9 Hz) NTSC	727
3.15.10	FLIR A310pt 45° (9 Hz) PAL	731
3.15.11	FLIR A310pt 45° NTSC	735
3.15.12	FLIR A310pt 45° PAL	739
3.15.13	FLIR A310pt 6° (9 Hz) NTSC	743
3.15.14	FLIR A310pt 6° (9 Hz) PAL	747
3.15.15	FLIR A310pt 6° NTSC	751
3.15.16	FLIR A310pt 6° PAL	755
3.15.17	FLIR A310pt 90° (9 Hz) NTSC	759
3.15.18	FLIR A310pt 90° (9 Hz) PAL	763
3.15.19	FLIR A310pt 90° NTSC	767
3.15.20	FLIR A310pt 90° PAL	771
3.16	FLIR A6xx series	775
3.16.1	FLIR A615 15°	776
3.16.2	FLIR A615 25°	780
3.16.3	FLIR A615 45°	784
3.16.4	FLIR A615 7°	788
3.16.5	FLIR A615 windowing 80°	792

## Table of contents

3.16.6	FLIR A645sc 15° .....	796
3.16.7	FLIR A645sc 25° .....	800
3.16.8	FLIR A645sc 45° .....	804
3.16.9	FLIR A645sc 7° .....	808
3.16.10	FLIR A645sc 80° .....	812
3.16.11	FLIR A655sc 15° .....	816
3.16.12	FLIR A655sc 25° .....	820
3.16.13	FLIR A655sc 45° .....	824
3.16.14	FLIR A655sc 7° .....	828
3.16.15	FLIR A655sc 80° .....	832
3.17	FLIR R&D series .....	836
3.17.1	FLIR SC7210 .....	837
3.17.2	FLIR SC7500 .....	840
3.17.3	FLIR SC7300 LW .....	843
3.17.4	FLIR SC7300 MW .....	846
3.17.5	FLIR SC7600 .....	849
3.17.6	FLIR SC7600 Cooling Fan .....	852
3.17.7	FLIR SC7650 .....	855
3.17.8	FLIR SC7650 E .....	858
3.17.9	FLIR SC7700 .....	861
3.17.10	FLIR SC7700 MW .....	864
3.17.11	FLIR SC7750 LW .....	867
3.17.12	FLIR X6530sc .....	870
3.17.13	FLIR X6530sc M80 .....	873
3.17.14	FLIR X6540sc .....	876
3.17.15	FLIR X6540sc M80 .....	879
3.17.16	FLIR X6580sc .....	882
3.17.17	FLIR X6580sc M80 .....	885
3.17.18	FLIR X8400sc .....	888
3.17.19	FLIR SC7100 SW .....	891
3.17.20	FLIR SC7200 .....	894
<b>4</b>	<b>T&amp;M instruments.....</b>	<b>897</b>
4.1	T&M instruments .....	898
4.1.1	FLIR CM78 .....	899
4.1.2	FLIR CM82: 600 Amp Power Clamp Meter with VFD Mode.....	901
4.1.3	FLIR CM83 .....	904
4.1.4	FLIR CM85: 1000 Amp Power Clamp Meter with VFD Mode and METERLiNK™ .....	907
4.1.5	FLIR DM92: Industrial Digital Multimeter with LoZ and VFD Mode .....	910
4.1.6	FLIR DM93 .....	913
4.1.7	FLIR IM75: Insulation Tester and Digital Multimeter with VFD Mode and METERLiNK .....	916
4.1.8	FLIR MR77 .....	919
4.1.9	FLIR TG165: Imaging IR Thermometer .....	922
4.1.10	FLIR VP50 .....	925
4.1.11	FLIR VP52 .....	927
4.1.12	FLIR VS70: Videoscope Main Unit .....	929
4.1.13	FLIR VS70: General Purpose (Wired) Long Focus Videoscope Combo .....	931
4.1.14	FLIR VS70: Wireless General Purpose Videoscope Combo .....	934
4.1.15	FLIR VS70: Small Opening Short Focus Videoscope Combo.....	938
4.1.16	FLIR VS70: Wired Articulation Camera Videoscope Combo.....	941

## Table of contents

4.1.17	FLIR VS70: Wireless Articulation Camera Videoscope Combo .....	944
4.1.18	FLIR VS70: Starter Bundle w Articulation and extra camera Videoscope Kit .....	948
4.1.19	FLIR VS70: Wireless Bundle w wireless Articulation and extra camera Videoscope Kit .....	952
<b>5</b>	<b>Software .....</b>	<b>956</b>
5.1	Software .....	957
5.1.1	FLIR BHP SDK .....	958
5.1.2	FLIR IR Camera Player .....	959
5.1.3	FLIR Platinum SDK .....	963
5.1.4	FLIR Reporter Professional (license only) .....	964
5.1.5	FLIR ResearchIR Max + HSDR 4 .....	967
5.1.6	FLIR ResearchIR Max + HSDR 4 .....	970
5.1.7	FLIR ResearchIR Max + HSDR 4 Upgrade .....	973
5.1.8	FLIR ResearchIR Max 4 .....	976
5.1.9	FLIR ResearchIR Max 4 .....	979
5.1.10	FLIR ResearchIR Max 4 Upgrade .....	982
5.1.11	FLIR ResearchIR Standard 4 .....	985
5.1.12	FLIR ResearchIR Standard 4 .....	988
5.1.13	FLIR ResearchIR Standard 4 Upgrade .....	991
5.1.14	FLIR Sensors Manager, pro .....	994
5.1.15	FLIR Tools .....	997
5.1.16	FLIR Tools (MacOS Application) .....	1003
5.1.17	FLIR Tools Mobile (Android Application) .....	1005
5.1.18	FLIR Tools Mobile (iPad/iPhone Application) .....	1008
5.1.19	FLIR Tools+ (license only) .....	1010
5.1.20	FLIR VideoReport .....	1015
5.1.21	ThermoVision LabVIEW Digital Toolkit Ver. 3.3 .....	1018
5.1.22	ThermoVision™ System Developers Kit Ver. 2.6 .....	1021
<b>6</b>	<b>Accessories .....</b>	<b>1024</b>
6.1	Accessories for FLIR ix series .....	1025
6.1.1	Power supply/charger with EU, UK, US and AU plugs .....	1026
6.1.2	Hard transport case for ix .....	1027
6.1.3	Tool belt .....	1028
6.1.4	Pouch FLIR Ex and ix series .....	1030
6.1.5	Car charger .....	1031
6.1.6	IR Window 2 in .....	1032
6.1.7	IR Window 3 in .....	1034
6.1.8	IR Window 4 in .....	1036
6.1.9	Memory card micro-SD with adapters .....	1038
6.1.10	USB cable Std A <-> Mini-B .....	1039
6.1.11	FLIR Reporter Professional (license only) .....	1042
6.1.12	FLIR Tools+ (license only) .....	1045
6.1.13	One year extended warranty for ix series .....	1050
6.1.14	Calibration including General maintenance ix series .....	1051
6.1.15	Certification DIN EN ISO 9712 TT Category 1 .....	1052
6.1.16	DIN EN ISO 9712 TT Category 1 Certification course, excl. Certification, 1 pers. ....	1054
6.1.17	DIN EN ISO 9712 TT Category 1 Certification course, excl. Certification, group up to 10 pers. ....	1056
6.1.18	ITC conference fee .....	1058
6.1.19	ITC Getting Started with Thermography - attendance, 1 pers. ....	1061

## Table of contents

6.1.20	ITC Getting Started with Thermography (evening or weekend) - attendance, 1 pers. ....	1063
6.1.21	ITC In-house training - additional attendance 1 pers. (per day).....	1065
6.1.22	ITC In-house training - group up to 10 pers. (per day) .....	1069
6.1.23	ITC Level 1 Thermography Course - additional student to on site class, 1 pers.....	1073
6.1.24	ITC Level 1 Thermography Course - attendance, 1 pers.....	1077
6.1.25	ITC Level 1 Thermography Course – group of 10 pers.....	1081
6.1.26	ITC Practical Course - Solar panel inspection - attendance, 1 pers (2 days).....	1085
6.1.27	ITC Practical Course - Solar panel inspection - group up to 10 pers (2 days) .....	1088
6.1.28	ITC Short course building thermography - inclusive 10 pers. (2 days) .....	1091
6.1.29	ITC Short course building thermography -attendance 1 pers. (2 days) .....	1093
6.1.30	ITC Short course electrical thermography - attendance 1 pers. (2 days) .....	1095
6.1.31	ITC Short course electrical thermography - inclusive 10 pers. (2 days) .....	1098
6.1.32	ITC Short course HVAC and plumbing - attendance 1 pers (2 days) .....	1101
6.1.33	ITC Short course HVAC and plumbing - group up to 10 pers (2 days) .....	1103
6.1.34	ITC Short course Introduction to thermography - inclusive 10 pers. (1 day) .....	1105
6.1.35	ITC Short course Introduction to thermography -attendance 1 pers. (1 day) .....	1109
6.1.36	ITC Software course - attendance 1 pers. (per day) .....	1113
6.1.37	ITC Software course - group up to 10 pers. (per day) .....	1117
6.1.38	ITC Training 1 day - attendance 1 pers. ....	1121
6.1.39	ITC Training 1 day - group up to 10 pers. ....	1125
6.1.40	ITC Training 2 days - attendance 1 pers. ....	1129
6.1.41	ITC Training 2 days - group up to 10 pers. ....	1133
6.1.42	ITC Training 3 days - attendance 1 pers. ....	1137
6.1.43	ITC Training 3 days - group up to 10 pers. ....	1141
6.1.44	ITC Training FLIR Software - attendance 1 pers. (1 day) .....	1145
6.1.45	ITC Training FLIR Software - attendance 1 pers. (2 days) .....	1147
6.1.46	ITC travel time for instructor.....	1149
6.1.47	Repeat Certification EN473 IT Category 1 .....	1152
6.1.48	Travel and lodging expenses instructor (Center and South Africa) .....	1154
6.1.49	Travel and lodging expenses instructor (Europe, Balcans, Turkey, Cyprus) .....	1157
6.1.50	Travel and lodging expenses instructor (other) .....	1160
6.1.51	Travel and lodging expenses instructor (Russia/GUS, Middle East, North Africa).....	1163
6.1.52	Travel and lodging expenses instructor (various) .....	1166
6.2	Accessories for FLIR ixx series (discontinued camera series) .....	1169
6.2.1	IR Window 2 in .....	1170

## Table of contents

6.2.2	IR Window 3 in. ....	1172
6.2.3	IR Window 4 in. ....	1174
6.2.4	Battery.....	1176
6.2.5	Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft. ....	1177
6.2.6	Battery package.....	1179
6.2.7	2-bay battery charger, incl. power supply with multi plugs .....	1180
6.2.8	Power supply, incl. multi plugs.....	1181
6.2.9	USB cable Std A <-> Mini-B .....	1184
6.2.10	Camera pouch for E Series, InfraCAM/BCAM, FLIR i/bxx .....	1187
6.2.11	Hard transport case for i/b40-60 .....	1188
6.2.12	FLIR Reporter Professional (license only).....	1189
6.2.13	FLIR Reporter Professional (license only).....	1192
6.2.14	FLIR IR Camera Player .....	1195
6.2.15	FLIR ResearchIR Max 4 .....	1199
6.2.16	FLIR ResearchIR Max + HSDR 4.....	1202
6.2.17	Calibration including General maintenance ixx series .....	1205
6.2.18	ITC Advanced General Thermography Course - attendance, 1 pers. ....	1206
6.2.19	ITC Advanced General Thermography Course- group of 10 pers.....	1210
6.2.20	ITC In-house training - additional attendance 1 pers. (per day).....	1214
6.2.21	ITC In-house training - group up to 10 pers. (per day) .....	1218
6.2.22	ITC Level 1 Thermography Course - additional student to on site class, 1 pers.....	1222
6.2.23	ITC Level 1 Thermography Course - attendance, 1 pers.....	1226
6.2.24	ITC Level 1 Thermography Course – group of 10 pers.....	1230
6.2.25	ITC Level 2 Thermography Course - additional student to on site class, 1 pers.....	1234
6.2.26	ITC Level 2 Thermography Course - attendance, 1 pers.....	1238
6.2.27	ITC Level 2 Thermography Course – group of 10 pers.....	1242
6.2.28	ITC Practical Course - Solar panel inspection - attendance, 1 pers (2 days).....	1246
6.2.29	ITC Practical Course - Solar panel inspection - group up to 10 pers (2 days) .....	1249
6.2.30	ITC Short course electrical thermography - attendance 1 pers. (2 days) .....	1252
6.2.31	ITC Short course electrical thermography - inclusive 10 pers. (2 days) .....	1255
6.2.32	ITC Short course Introduction to thermography - inclusive 10 pers. (1 day) .....	1258
6.2.33	ITC Short course Introduction to thermography -attendance 1 pers. (1 day) .....	1262
6.2.34	ITC Software course - attendance 1 pers. (per day) .....	1266
6.2.35	ITC Software course - group up to 10 pers. (per day) .....	1270
6.2.36	ITC Training 1 day - attendance 1 pers. ....	1274
6.2.37	ITC Training 1 day - group up to 10 pers. ....	1278
6.2.38	ITC Training 2 days - attendance 1 pers. ....	1282
6.2.39	ITC Training 2 days - group up to 10 pers. ....	1286

## Table of contents

6.2.40	ITC Training 3 days - attendance 1 pers. ....	1290
6.2.41	ITC Training 3 days - group up to 10 pers. ....	1294
6.3	Accessories for FLIR bxx (discontinued camera series) ....	1298
6.3.1	IR Window 2 in. ....	1299
6.3.2	IR Window 3 in. ....	1301
6.3.3	IR Window 4 in. ....	1303
6.3.4	Battery ....	1305
6.3.5	Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft. ....	1306
6.3.6	Battery package ....	1308
6.3.7	2-bay battery charger, incl. power supply with multi plugs ....	1309
6.3.8	Power supply, incl. multi plugs ....	1310
6.3.9	USB cable Std A <-> Mini-B ....	1313
6.3.10	Camera pouch for E Series, InfraCAM/BCAM, FLIR i/bxx ....	1316
6.3.11	Hard transport case for i/b40-60 ....	1317
6.3.12	FLIR Reporter Professional (license only) ....	1318
6.3.13	FLIR Reporter Professional (license only) ....	1321
6.3.14	FLIR IR Camera Player ....	1324
6.3.15	FLIR ResearchIR Max 4 ....	1328
6.3.16	FLIR ResearchIR Max + HSDR 4 ....	1331
6.3.17	Calibration including General maintenance bxx series ....	1334
6.3.18	ITC Advanced Building – attendance 1 pers. ....	1335
6.3.19	ITC Advanced Building – group of 10 pers. ....	1337
6.3.20	ITC Advanced General Thermography Course - attendance, 1 pers. ....	1339
6.3.21	ITC Advanced General Thermography Course- group of 10 pers. ....	1343
6.3.22	ITC In-house training - additional attendance 1 pers. (per day) ....	1347
6.3.23	ITC In-house training - group up to 10 pers. (per day) ....	1351
6.3.24	ITC Level 1 Thermography Course - additional student to on site class, 1 pers. ....	1355
6.3.25	ITC Level 1 Thermography Course - attendance, 1 pers. ....	1359
6.3.26	ITC Level 1 Thermography Course – group of 10 pers. ....	1363
6.3.27	ITC Level 2 Thermography Course - additional student to on site class, 1 pers. ....	1367
6.3.28	ITC Level 2 Thermography Course - attendance, 1 pers. ....	1371
6.3.29	ITC Level 2 Thermography Course – group of 10 pers. ....	1375
6.3.30	ITC Short course building thermography - inclusive 10 pers. (2 days) ....	1379
6.3.31	ITC Short course building thermography -attendance 1 pers. (2 days) ....	1381
6.3.32	ITC Short course HVAC and plumbing - attendance 1 pers (2 days) ....	1383
6.3.33	ITC Short course HVAC and plumbing - group up to 10 pers (2 days) ....	1385
6.3.34	ITC Short course Introduction to thermography - inclusive 10 pers. (1 day) ....	1387
6.3.35	ITC Short course Introduction to thermography -attendance 1 pers. (1 day) ....	1391
6.3.36	ITC Software course - attendance 1 pers. (per day) ....	1395

## Table of contents

6.3.37	ITC Software course - group up to 10 pers. (per day) .....	1399
6.3.38	ITC Training 1 day - attendance 1 pers. ....	1403
6.3.39	ITC Training 1 day - group up to 10 pers. ....	1407
6.3.40	ITC Training 2 days - attendance 1 pers. ....	1411
6.3.41	ITC Training 2 days - group up to 10 pers. ....	1415
6.3.42	ITC Training 3 days - attendance 1 pers. ....	1419
6.3.43	ITC Training 3 days - group up to 10 pers. ....	1423
6.4	Accessories for FLIR Ex series .....	1427
6.4.1	Hard transport case for Ex .....	1428
6.4.2	Battery .....	1429
6.4.3	Battery charger incl power supply .....	1430
6.4.4	Car charger .....	1431
6.4.5	Power supply USB-micro .....	1432
6.4.6	Pouch FLIR Ex and ix series .....	1433
6.4.7	USB cable .....	1434
6.4.8	FLIR Tools+ (license only) .....	1435
6.4.9	One year extended warranty for ix series .....	1440
6.5	Accessories for FLIR Exx series .....	1441
6.5.1	Tool belt .....	1442
6.5.2	Battery charger, incl. power supply with multi plugs (Exx, Kxx) .....	1444
6.5.3	Transport case Exx .....	1445
6.5.4	Li-Ion Battery pack 3.7V 17Wh .....	1446
6.5.5	Pouch for FLIR Exx series .....	1447
6.5.6	Tripod Adapter .....	1448
6.5.7	Sun shield .....	1449
6.5.8	IR Window 2 in .....	1450
6.5.9	IR Window 3 in .....	1452
6.5.10	IR Window 4 in .....	1454
6.5.11	SS IR window 2" .....	1456
6.5.12	SS IR window 3" .....	1458
6.5.13	SS IR window 4" .....	1460
6.5.14	IR lens, f = 30 mm, 15° incl. case .....	1462
6.5.15	IR lens, f = 10 mm, 45° incl. case .....	1464
6.5.16	Power supply, incl. multi plugs .....	1466
6.5.17	Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft. ....	1469
6.5.18	Memory card SDHC 4 GB .....	1471
6.5.19	USB cable Std A <-> Mini-B .....	1473
6.5.20	Video cable .....	1476
6.5.21	Bluetooth Headset .....	1477
6.5.22	FLIR Reporter Professional (license only) .....	1479
6.5.23	FLIR Reporter Professional (license only) .....	1482
6.5.24	FLIR Tools .....	1485
6.5.25	FLIR Tools+ (license only) .....	1491
6.5.26	FLIR IR Camera Player .....	1496
6.5.27	FLIR Tools Mobile (Android Application) .....	1500
6.5.28	FLIR Tools Mobile (iPad/iPhone Application) .....	1503
6.5.29	FLIR Tools (MacOS Application) .....	1505
6.5.30	IR lens, 76 mm (6°) with case and mounting support for Exx .....	1507
6.5.31	One year extended warranty for Exx series .....	1509
6.5.32	Calibration including General maintenance Exx series .....	1510
6.5.33	Certification DIN EN ISO 9712 TT Category 1 .....	1511



6.5.34	DIN EN ISO 9712 TT Category 1 Certification course, excl. Certification, 1 pers. ....	1513
6.5.35	DIN EN ISO 9712 TT Category 1 Certification course, excl. Certification, group up to 10 pers. ....	1515
6.5.36	ITC Advanced Building – attendance 1 pers. ....	1517
6.5.37	ITC Advanced Building – group of 10 pers. ....	1519
6.5.38	ITC Advanced General Thermography Course - attendance, 1 pers. ....	1521
6.5.39	ITC Advanced General Thermography Course- group of 10 pers. ....	1525
6.5.40	ITC conference fee ....	1529
6.5.41	ITC Getting Started with Thermography - attendance, 1 pers. ....	1532
6.5.42	ITC Getting Started with Thermography (evening or weekend) - attendance, 1 pers. ....	1534
6.5.43	ITC In-house training - additional attendance 1 pers. (per day) ....	1536
6.5.44	ITC In-house training - group up to 10 pers. (per day) ....	1540
6.5.45	ITC Level 1 Thermography Course - additional student to on site class, 1 pers. ....	1544
6.5.46	ITC Level 1 Thermography Course - attendance, 1 pers. ....	1548
6.5.47	ITC Level 1 Thermography Course – group of 10 pers. ....	1552
6.5.48	ITC Level 2 Thermography Course - additional student to on site class, 1 pers. ....	1556
6.5.49	ITC Level 2 Thermography Course - attendance, 1 pers. ....	1560
6.5.50	ITC Level 2 Thermography Course – group of 10 pers. ....	1564
6.5.51	ITC Practical Course - Solar panel inspection - attendance, 1 pers (2 days) ....	1568
6.5.52	ITC Practical Course - Solar panel inspection - group up to 10 pers (2 days) ....	1571
6.5.53	ITC Short course building thermography - inclusive 10 pers. (2 days) ....	1574
6.5.54	ITC Short course building thermography -attendance 1 pers. (2 days) ....	1576
6.5.55	ITC Short course electrical thermography - attendance 1 pers. (2 days) ....	1578
6.5.56	ITC Short course electrical thermography - inclusive 10 pers. (2 days) ....	1581
6.5.57	ITC Short course HVAC and plumbing - attendance 1 pers (2 days) ....	1584
6.5.58	ITC Short course HVAC and plumbing - group up to 10 pers (2 days) ....	1586
6.5.59	ITC Short course Introduction to thermography - inclusive 10 pers. (1 day) ....	1588
6.5.60	ITC Short course Introduction to thermography -attendance 1 pers. (1 day) ....	1592
6.5.61	ITC Software course - attendance 1 pers. (per day) ....	1596
6.5.62	ITC Software course - group up to 10 pers. (per day) ....	1600
6.5.63	ITC Training 1 day - attendance 1 pers. ....	1604
6.5.64	ITC Training 1 day - group up to 10 pers. ....	1608
6.5.65	ITC Training 2 days - attendance 1 pers. ....	1612
6.5.66	ITC Training 2 days - group up to 10 pers. ....	1616
6.5.67	ITC Training 3 days - attendance 1 pers. ....	1620

## Table of contents

6.5.68	ITC Training 3 days - group up to 10 pers. ....	1624
6.5.69	ITC Training FLIR Software - attendance 1 pers. (1 day) .....	1628
6.5.70	ITC Training FLIR Software - attendance 1 pers. (2 days) .....	1630
6.5.71	ITC travel time for instructor.....	1632
6.5.72	Repeat Certification EN473 IT Category 1 .....	1635
6.5.73	Travel and lodging expenses instructor (Center and South Africa) .....	1637
6.5.74	Travel and lodging expenses instructor (Europe, Balkans, Turkey, Cyprus) .....	1640
6.5.75	Travel and lodging expenses instructor (other) .....	1643
6.5.76	Travel and lodging expenses instructor (Russia/GUS, Middle East, North Africa).....	1646
6.5.77	Travel and lodging expenses instructor (various) .....	1649
6.6	Accessories for FLIR Txxx series (discontinued camera series) .....	1652
6.6.1	IR Window 2 in .....	1653
6.6.2	IR Window 3 in .....	1655
6.6.3	IR Window 4 in .....	1657
6.6.4	IR lens, f = 30 mm, 15° incl. case .....	1659
6.6.5	IR lens, f = 10 mm, 45° incl. case .....	1661
6.6.6	Close-up 4x (100 µm) incl. case .....	1663
6.6.7	Close-up 2x (50 µm) incl. case.....	1665
6.6.8	IR lens, 76 mm (6°) with case and mounting support for T/B-200/400.....	1667
6.6.9	IR lens, 4 mm (90°) with case and mounting support for T/B2xx-4xx .....	1669
6.6.10	Lens cap camera .....	1671
6.6.11	High temp. option +1200°C/+2192°F for FLIR T/B2xx to T/B4xx and A3xx, A3xxf, A3xxpt, A3xxsc series .....	1672
6.6.12	Battery .....	1674
6.6.13	Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft. ....	1675
6.6.14	Battery package .....	1677
6.6.15	2-bay battery charger, incl. power supply with multi plugs .....	1678
6.6.16	Power supply, incl. multi plugs.....	1679
6.6.17	USB cable Std A <-> Mini-B .....	1682
6.6.18	Hard transport case for FLIR T/B2xx-4xx .....	1685
6.6.19	Pouch .....	1686
6.6.20	Wi-Fi USB micro adapter .....	1687
6.6.21	FLIR Reporter Professional (license only) .....	1688
6.6.22	FLIR Reporter Professional (license only) .....	1691
6.6.23	FLIR Tools .....	1694
6.6.24	FLIR Tools+ (license only) .....	1700
6.6.25	FLIR IR Camera Player .....	1705
6.6.26	FLIR Tools Mobile (Android Application) .....	1709
6.6.27	FLIR Tools Mobile (iPad/iPhone Application) .....	1712
6.6.28	FLIR ResearchIR Max 4 .....	1714
6.6.29	FLIR ResearchIR Max + HSDR 4.....	1717
6.6.30	One year extended warranty for T2xx-4xx series .....	1720
6.6.31	Calibration including General maintenance T2xx-T4xx series .....	1721
6.6.32	Certification DIN EN ISO 9712 TT Category 1 .....	1722
6.6.33	DIN EN ISO 9712 TT Category 1 Certification course, excl. Certification, 1 pers. ....	1724
6.6.34	DIN EN ISO 9712 TT Category 1 Certification course, excl. Certification, group up to 10 pers. ....	1726

## Table of contents

6.6.35	ITC Advanced General Thermography Course - attendance, 1 pers. ....	1728
6.6.36	ITC Advanced General Thermography Course- group of 10 pers.....	1732
6.6.37	ITC conference fee .....	1736
6.6.38	ITC Getting Started with Thermography - attendance, 1 pers.....	1739
6.6.39	ITC Getting Started with Thermography (evening or weekend) - attendance, 1 pers. ....	1741
6.6.40	ITC In-house training - additional attendance 1 pers. (per day).....	1743
6.6.41	ITC In-house training - group up to 10 pers. (per day) .....	1747
6.6.42	ITC Level 1 Thermography Course - additional student to on site class, 1 pers.....	1751
6.6.43	ITC Level 1 Thermography Course - attendance, 1 pers.....	1755
6.6.44	ITC Level 1 Thermography Course – group of 10 pers.....	1759
6.6.45	ITC Level 2 Thermography Course - additional student to on site class, 1 pers.....	1763
6.6.46	ITC Level 2 Thermography Course - attendance, 1 pers.....	1767
6.6.47	ITC Level 2 Thermography Course – group of 10 pers.....	1771
6.6.48	ITC Practical Course - Solar panel inspection - attendance, 1 pers (2 days).....	1775
6.6.49	ITC Practical Course - Solar panel inspection - group up to 10 pers (2 days) .....	1778
6.6.50	ITC Short course electrical thermography - attendance 1 pers. (2 days) .....	1781
6.6.51	ITC Short course electrical thermography - inclusive 10 pers. (2 days) .....	1784
6.6.52	ITC Short course Introduction to thermography - inclusive 10 pers. (1 day) .....	1787
6.6.53	ITC Short course Introduction to thermography -attendance 1 pers. (1 day) .....	1791
6.6.54	ITC Software course - attendance 1 pers. (per day) .....	1795
6.6.55	ITC Software course - group up to 10 pers. (per day) .....	1799
6.6.56	ITC Training 1 day - attendance 1 pers. ....	1803
6.6.57	ITC Training 1 day - group up to 10 pers. ....	1807
6.6.58	ITC Training 2 days - attendance 1 pers. ....	1811
6.6.59	ITC Training 2 days - group up to 10 pers. ....	1815
6.6.60	ITC Training 3 days - attendance 1 pers. ....	1819
6.6.61	ITC Training 3 days - group up to 10 pers. ....	1823
6.6.62	ITC Training FLIR Software - attendance 1 pers. (1 day) .....	1827
6.6.63	ITC Training FLIR Software - attendance 1 pers. (2 days) .....	1829
6.6.64	ITC travel time for instructor.....	1831
6.6.65	Repeat Certification EN473 IT Category 1 .....	1834
6.6.66	Travel and lodging expenses instructor (Center and South Africa) .....	1836
6.6.67	Travel and lodging expenses instructor (Europe, Balcans, Turkey, Cyprus) .....	1839
6.6.68	Travel and lodging expenses instructor (other) .....	1842
6.6.69	Travel and lodging expenses instructor (Russia/GUS, Middle East, North Africa).....	1845

6.6.70	Travel and lodging expenses instructor (various)	1848
6.7	Accessories for FLIR Bxxx series (discontinued camera series)	1851
6.7.1	IR Window 2 in	1852
6.7.2	IR Window 3 in	1854
6.7.3	IR Window 4 in	1856
6.7.4	IR lens, f = 30 mm, 15° incl. case	1858
6.7.5	IR lens, f = 10 mm, 45° incl. case	1860
6.7.6	Close-up 4x (100 µm) incl. case	1862
6.7.7	Close-up 2x (50 µm) incl. case	1864
6.7.8	IR lens, 76 mm (6°) with case and mounting support for T/B-200/400	1866
6.7.9	IR lens, 4 mm (90°) with case and mounting support for T/B2xx-4xx	1868
6.7.10	Lens cap camera	1870
6.7.11	High temp. option +1200°C/+2192°F for FLIR T/B2xx to T/B4xx and A3xx, A3xxf, A3xxpt, A3xxsc series	1871
6.7.12	High temp. option +350°C/+662°F for FLIR B2xx to B4xx Series	1873
6.7.13	Battery	1874
6.7.14	Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.	1875
6.7.15	Battery package	1877
6.7.16	2-bay battery charger, incl. power supply with multi plugs	1878
6.7.17	Power supply, incl. multi plugs	1879
6.7.18	USB cable Std A <-> Mini-B	1882
6.7.19	Hard transport case for FLIR T/B2xx-4xx	1885
6.7.20	Pouch	1886
6.7.21	Wi-Fi USB micro adapter	1887
6.7.22	FLIR Reporter Professional (license only)	1888
6.7.23	FLIR Reporter Professional (license only)	1891
6.7.24	FLIR Tools	1894
6.7.25	FLIR Tools+ (license only)	1900
6.7.26	FLIR IR Camera Player	1905
6.7.27	FLIR Tools Mobile (Android Application)	1909
6.7.28	FLIR Tools Mobile (iPad/iPhone Application)	1912
6.7.29	FLIR ResearchIR Max 4	1914
6.7.30	FLIR ResearchIR Max + HSDR 4	1917
6.7.31	One year extended warranty for B2xx-4xx series	1920
6.7.32	Calibration including General maintenance B2xx-B4xx series	1921
6.7.33	Certification DIN EN ISO 9712 TT Category 1	1922
6.7.34	DIN EN ISO 9712 TT Category 1 Certification course, excl. Certification, 1 pers.	1924
6.7.35	DIN EN ISO 9712 TT Category 1 Certification course, excl. Certification, group up to 10 pers.	1926
6.7.36	ITC Advanced Building – attendance 1 pers	1928
6.7.37	ITC Advanced Building – group of 10 pers.	1930
6.7.38	ITC Advanced General Thermography Course - attendance, 1 pers.	1932
6.7.39	ITC Advanced General Thermography Course- group of 10 pers.	1936
6.7.40	ITC conference fee	1940
6.7.41	ITC Getting Started with Thermography - attendance, 1 pers.	1943
6.7.42	ITC Getting Started with Thermography (evening or weekend) - attendance, 1 pers.	1945

## Table of contents

6.7.43	ITC In-house training - additional attendance 1 pers. (per day).....	1947
6.7.44	ITC In-house training - group up to 10 pers. (per day) .....	1951
6.7.45	ITC Level 1 Thermography Course - additional student to on site class, 1 pers.....	1955
6.7.46	ITC Level 1 Thermography Course - attendance, 1 pers.....	1959
6.7.47	ITC Level 1 Thermography Course – group of 10 pers.....	1963
6.7.48	ITC Level 2 Thermography Course - additional student to on site class, 1 pers.....	1967
6.7.49	ITC Level 2 Thermography Course - attendance, 1 pers.....	1971
6.7.50	ITC Level 2 Thermography Course – group of 10 pers.....	1975
6.7.51	ITC Short course building thermography - inclusive 10 pers. (2 days) .....	1979
6.7.52	ITC Short course building thermography -attendance 1 pers. (2 days) .....	1981
6.7.53	ITC Short course HVAC and plumbing - attendance 1 pers (2 days) .....	1983
6.7.54	ITC Short course HVAC and plumbing - group up to 10 pers (2 days) .....	1985
6.7.55	ITC Short course Introduction to thermography - inclusive 10 pers. (1 day) .....	1987
6.7.56	ITC Short course Introduction to thermography -attendance 1 pers. (1 day) .....	1991
6.7.57	ITC Software course - attendance 1 pers. (per day) .....	1995
6.7.58	ITC Software course - group up to 10 pers. (per day) .....	1999
6.7.59	ITC Training 1 day - attendance 1 pers. ....	2003
6.7.60	ITC Training 1 day - group up to 10 pers. ....	2007
6.7.61	ITC Training 2 days - attendance 1 pers. ....	2011
6.7.62	ITC Training 2 days - group up to 10 pers. ....	2015
6.7.63	ITC Training 3 days - attendance 1 pers. ....	2019
6.7.64	ITC Training 3 days - group up to 10 pers. ....	2023
6.7.65	ITC Training FLIR Software - attendance 1 pers. (1 day) .....	2027
6.7.66	ITC Training FLIR Software - attendance 1 pers. (2 days) .....	2029
6.7.67	ITC travel time for instructor.....	2031
6.7.68	Repeat Certification EN473 IT Category 1 .....	2034
6.7.69	Travel and lodging expenses instructor (Center and South Africa) .....	2036
6.7.70	Travel and lodging expenses instructor (Europe, Balcans, Turkey, Cyprus) .....	2039
6.7.71	Travel and lodging expenses instructor (other) .....	2042
6.7.72	Travel and lodging expenses instructor (Russia/GUS, Middle East, North Africa).....	2045
6.7.73	Travel and lodging expenses instructor (various) .....	2048
6.8	Accessories for FLIR T4xx series .....	2051
6.8.1	Tool belt .....	2052
6.8.2	IR Window 2 in .....	2054
6.8.3	IR Window 3 in. ....	2056
6.8.4	IR Window 4 in. ....	2058
6.8.5	SS IR window 2" .....	2060
6.8.6	SS IR window 3" .....	2062

## Table of contents

6.8.7	SS IR window 4" .....	2064
6.8.8	IR lens, f = 30 mm, 15° incl. case .....	2066
6.8.9	IR lens, f = 10 mm, 45° incl. case .....	2068
6.8.10	Close-up 4× (100 µm) incl. case .....	2070
6.8.11	Close-up 2× (50 µm) incl. case .....	2072
6.8.12	IR lens, 76 mm (6°) with case and mounting support for T/B-200/400 .....	2074
6.8.13	IR lens, 4 mm (90°) with case and mounting support for T/B2xx-4xx .....	2076
6.8.14	High temp. option +1200°C/+2192°F for FLIR T/B2xx to T/B4xx and A3xx, A3xxf, A3xxpt, A3xxsc series .....	2078
6.8.15	Battery .....	2080
6.8.16	Battery package .....	2081
6.8.17	2-bay battery charger, incl. power supply with multi plugs .....	2082
6.8.18	Power supply, incl. multi plugs .....	2083
6.8.19	Memory card SDHC 4 GB .....	2086
6.8.20	USB cable Std A <-> Mini-B .....	2088
6.8.21	Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft. ....	2091
6.8.22	Video cable .....	2093
6.8.23	Hard transport case for FLIR T/B2xx-4xx .....	2094
6.8.24	Pouch for FLIR T6xx and T4xx series .....	2095
6.8.25	Pouch .....	2097
6.8.26	Sun shield .....	2098
6.8.27	Neck strap .....	2099
6.8.28	Bluetooth Headset .....	2101
6.8.29	FLIR Reporter Professional (license only) .....	2103
6.8.30	FLIR Reporter Professional (license only) .....	2106
6.8.31	FLIR Tools .....	2109
6.8.32	FLIR Tools+ (license only) .....	2115
6.8.33	FLIR IR Camera Player .....	2120
6.8.34	FLIR Tools Mobile (Android Application) .....	2124
6.8.35	FLIR Tools Mobile (iPad/iPhone Application) .....	2127
6.8.36	FLIR Tools (MacOS Application) .....	2129
6.8.37	One year extended warranty for T2xx-4xx series .....	2131
6.8.38	Calibration including General maintenance T2xx-T4xx series .....	2132
6.8.39	Certification DIN EN ISO 9712 TT Category 1 .....	2133
6.8.40	DIN EN ISO 9712 TT Category 1 Certification course, excl. Certification, 1 pers. ....	2135
6.8.41	DIN EN ISO 9712 TT Category 1 Certification course, excl. Certification, group up to 10 pers. ....	2137
6.8.42	ITC Advanced General Thermography Course - attendance, 1 pers. ....	2139
6.8.43	ITC Advanced General Thermography Course- group of 10 pers. ....	2143
6.8.44	ITC conference fee .....	2147
6.8.45	ITC Getting Started with Thermography - attendance, 1 pers. ....	2150
6.8.46	ITC Getting Started with Thermography (evening or weekend) - attendance, 1 pers. ....	2152
6.8.47	ITC In-house training - additional attendance 1 pers. (per day) .....	2154
6.8.48	ITC In-house training - group up to 10 pers. (per day) .....	2158
6.8.49	ITC Level 1 Thermography Course - additional student to on site class, 1 pers. ....	2162

6.8.50	ITC Level 1 Thermography Course - attendance, 1 pers.....	2166
6.8.51	ITC Level 1 Thermography Course – group of 10 pers.....	2170
6.8.52	ITC Level 2 Thermography Course - additional student to on site class, 1 pers.....	2174
6.8.53	ITC Level 2 Thermography Course - attendance, 1 pers.....	2178
6.8.54	ITC Level 2 Thermography Course – group of 10 pers.....	2182
6.8.55	ITC Practical Course - Solar panel inspection - attendance, 1 pers (2 days).....	2186
6.8.56	ITC Practical Course - Solar panel inspection - group up to 10 pers (2 days) .....	2189
6.8.57	ITC Short course electrical thermography - attendance 1 pers. (2 days) .....	2192
6.8.58	ITC Short course electrical thermography - inclusive 10 pers. (2 days) .....	2195
6.8.59	ITC Short course Introduction to thermography - inclusive 10 pers. (1 day) .....	2198
6.8.60	ITC Short course Introduction to thermography -attendance 1 pers. (1 day) .....	2202
6.8.61	ITC Software course - attendance 1 pers. (per day) .....	2206
6.8.62	ITC Software course - group up to 10 pers. (per day) .....	2210
6.8.63	ITC Training 1 day - attendance 1 pers. ....	2214
6.8.64	ITC Training 1 day - group up to 10 pers. ....	2218
6.8.65	ITC Training 2 days - attendance 1 pers. ....	2222
6.8.66	ITC Training 2 days - group up to 10 pers. ....	2226
6.8.67	ITC Training 3 days - attendance 1 pers. ....	2230
6.8.68	ITC Training 3 days - group up to 10 pers. ....	2234
6.8.69	ITC Training FLIR Software - attendance 1 pers. (1 day) .....	2238
6.8.70	ITC Training FLIR Software - attendance 1 pers. (2 days) .....	2240
6.8.71	ITC travel time for instructor.....	2242
6.8.72	Repeat Certification EN473 IT Category 1 .....	2245
6.8.73	Travel and lodging expenses instructor (Center and South Africa) .....	2247
6.8.74	Travel and lodging expenses instructor (Europe, Balcans, Turkey, Cyprus) .....	2250
6.8.75	Travel and lodging expenses instructor (other) .....	2253
6.8.76	Travel and lodging expenses instructor (Russia/GUS, Middle East, North Africa).....	2256
6.8.77	Travel and lodging expenses instructor (various) .....	2259
6.9	Accessories for FLIR T6xx series .....	2262
6.9.1	Tool belt .....	2263
6.9.2	IR Window 2 in.....	2265
6.9.3	IR Window 3 in. ....	2267
6.9.4	IR Window 4 in. ....	2269
6.9.5	SS IR window 2" .....	2271
6.9.6	SS IR window 3" .....	2273
6.9.7	SS IR window 4" .....	2275
6.9.8	IR lens, f=41.3 mm (15°) with case .....	2277
6.9.9	IR lens, f=24.6 mm (25°) with case .....	2279
6.9.10	IR lens, f=13.1 mm (45°) with case .....	2281
6.9.11	Close-up IR lens, 2.9× (50 µm) with case.....	2283

## Table of contents

6.9.12	Close-up IR lens, 5.8× (100 µm) with case .....	2285
6.9.13	IR lens, f=88.9 mm (7°) with case and support for T6xx .....	2287
6.9.14	IR lens, f=6.5 mm (80°) with case .....	2289
6.9.15	Close-up IR lens, 1.5× (25 µm) with case .....	2291
6.9.16	High temp option +300°C to 2000°C (+572°F to 3632°F) for FLIR A6xxsc and T6xx .....	2293
6.9.17	Power supply, incl. multi plugs .....	2295
6.9.18	Li-Ion Battery pack 3.7V 29Wh .....	2298
6.9.19	Memory card SDHC 4 GB .....	2300
6.9.20	USB cable Std A <-> Mini-B .....	2302
6.9.21	Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft. ....	2305
6.9.22	HDMI type C to DVI cable 1.5 m .....	2307
6.9.23	HDMI type C to HDMI type A cable 1.5 m .....	2309
6.9.24	Hard transport case for T6xx series .....	2311
6.9.25	Pouch for FLIR T6xx and T4xx series .....	2313
6.9.26	Large eyecup .....	2315
6.9.27	Tripod Adapter .....	2317
6.9.28	Neck strap .....	2319
6.9.29	Bluetooth Headset .....	2321
6.9.30	FLIR Reporter Professional (license only) .....	2323
6.9.31	FLIR Reporter Professional (license only) .....	2326
6.9.32	FLIR Tools .....	2329
6.9.33	FLIR Tools+ (license only) .....	2335
6.9.34	FLIR IR Camera Player .....	2340
6.9.35	FLIR Tools Mobile (Android Application) .....	2344
6.9.36	FLIR Tools Mobile (iPad/iPhone Application) .....	2347
6.9.37	FLIR Tools (MacOS Application) .....	2349
6.9.38	One year extended warranty for T6xx series .....	2351
6.9.39	Calibration including General maintenance T6xx series .....	2353
6.9.40	Certification DIN EN ISO 9712 TT Category 1 .....	2355
6.9.41	DIN EN ISO 9712 TT Category 1 Certification course, excl. Certification, 1 pers. ....	2357
6.9.42	DIN EN ISO 9712 TT Category 1 Certification course, excl. Certification, group up to 10 pers. ....	2359
6.9.43	ITC Advanced Building – attendance 1 pers .....	2361
6.9.44	ITC Advanced Building – group of 10 pers. ....	2363
6.9.45	ITC Advanced General Thermography Course - attendance, 1 pers. ....	2365
6.9.46	ITC Advanced General Thermography Course- group of 10 pers. ....	2369
6.9.47	ITC Advanced Thermal applications course - attendance 1 pers. (3 days) .....	2373
6.9.48	ITC Advanced Thermal applications course - group up to 10 pers. (3 days) .....	2376
6.9.49	ITC conference fee .....	2379
6.9.50	ITC Getting Started with Thermography - attendance, 1 pers. ....	2382
6.9.51	ITC Getting Started with Thermography (evening or weekend) - attendance, 1 pers. ....	2384
6.9.52	ITC In-house training - additional attendance 1 pers. (per day) .....	2386
6.9.53	ITC In-house training - group up to 10 pers. (per day) .....	2390
6.9.54	ITC Level 1 Thermography Course - additional student to on site class, 1 pers. ....	2394



## Table of contents

6.9.55	ITC Level 1 Thermography Course - attendance, 1 pers.....	2398
6.9.56	ITC Level 1 Thermography Course – group of 10 pers.....	2402
6.9.57	ITC Level 2 Thermography Course - additional student to on site class, 1 pers.....	2406
6.9.58	ITC Level 2 Thermography Course - attendance, 1 pers.....	2410
6.9.59	ITC Level 2 Thermography Course – group of 10 pers.....	2414
6.9.60	ITC Practical Course - Solar panel inspection - attendance, 1 pers (2 days).....	2418
6.9.61	ITC Practical Course - Solar panel inspection - group up to 10 pers (2 days) .....	2421
6.9.62	ITC Short course building thermography - inclusive 10 pers. (2 days) .....	2424
6.9.63	ITC Short course building thermography -attendance 1 pers. (2 days) .....	2426
6.9.64	ITC Short course electrical thermography - attendance 1 pers. (2 days) .....	2428
6.9.65	ITC Short course electrical thermography - inclusive 10 pers. (2 days) .....	2431
6.9.66	ITC Short course HVAC and plumbing - attendance 1 pers (2 days) .....	2434
6.9.67	ITC Short course HVAC and plumbing - group up to 10 pers (2 days) .....	2436
6.9.68	ITC Short course Introduction to thermography - inclusive 10 pers. (1 day) .....	2438
6.9.69	ITC Short course Introduction to thermography -attendance 1 pers. (1 day) .....	2442
6.9.70	ITC Software course - attendance 1 pers. (per day) .....	2446
6.9.71	ITC Software course - group up to 10 pers. (per day) .....	2450
6.9.72	ITC Training 1 day - attendance 1 pers. ....	2454
6.9.73	ITC Training 1 day - group up to 10 pers. ....	2458
6.9.74	ITC Training 2 days - attendance 1 pers. ....	2462
6.9.75	ITC Training 2 days - group up to 10 pers. ....	2466
6.9.76	ITC Training 3 days - attendance 1 pers. ....	2470
6.9.77	ITC Training 3 days - group up to 10 pers. ....	2474
6.9.78	ITC Training FLIR Software - attendance 1 pers. (1 day) .....	2478
6.9.79	ITC Training FLIR Software - attendance 1 pers. (2 days) .....	2480
6.9.80	ITC travel time for instructor.....	2482
6.9.81	Repeat Certification EN473 IT Category 1 .....	2485
6.9.82	Travel and lodging expenses instructor (Center and South Africa) .....	2487
6.9.83	Travel and lodging expenses instructor (Europe, Balcans, Turkey, Cyprus) .....	2490
6.9.84	Travel and lodging expenses instructor (other) .....	2493
6.9.85	Travel and lodging expenses instructor (Russia/GUS, Middle East, North Africa).....	2496
6.9.86	Travel and lodging expenses instructor (various) .....	2499
6.10	Accessories for FLIR GF3xx series .....	2502
6.10.1	IR lens, 24° with case for GF300, GF309, GF320 .....	2503
6.10.2	IR lens, 6° with case for GF300, GF309, GF320, GF346. ....	2504

## Table of contents

6.10.3	IR lens, 14.5° with case for GF300, GF309, GF320 .....	2505
6.10.4	IR lens, 24° with case for GF304, GF306 .....	2506
6.10.5	IR lens, 14.5° with case for GF304, GF306 .....	2507
6.10.6	IR lens, 24° with case for GF335, GF346 .....	2508
6.10.7	IR lens, 14.5° with case for GF335, GF346 .....	2509
6.10.8	Furnace IR lens extender, 14.5° with case for GF309 .....	2510
6.10.9	Furnace IR lens extender, 24° with case for GF309 .....	2511
6.10.10	Battery charger, incl. power supply with multi plugs .....	2512
6.10.11	Power supply, incl. multi plugs .....	2514
6.10.12	Li-Ion Battery pack 7.4V 33Wh .....	2517
6.10.13	Memory card SDHC 4 GB .....	2519
6.10.14	USB cable Std A <-> Mini-B .....	2521
6.10.15	Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft. ....	2524
6.10.16	HDMI to HDMI cable 1.5 m .....	2526
6.10.17	HDMI to DVI cable 1.5 m .....	2527
6.10.18	Hard transport case for FLIR GF3xx-Series .....	2528
6.10.19	Wi-Fi USB micro adapter .....	2529
6.10.20	Heat Shield for FLIR GF309 .....	2530
6.10.21	FLIR Reporter Professional (license only) .....	2531
6.10.22	FLIR Reporter Professional (license only) .....	2534
6.10.23	FLIR Tools .....	2537
6.10.24	FLIR Tools+ (license only) .....	2543
6.10.25	FLIR VideoReport .....	2548
6.10.26	FLIR IR Camera Player .....	2551
6.10.27	FLIR Tools Mobile (Android Application) .....	2555
6.10.28	FLIR Tools Mobile (iPad/iPhone Application) .....	2558
6.10.29	ThermoVision™ System Developers Kit Ver. 2.6 .....	2560
6.10.30	ThermoVision LabVIEW Digital Toolkit Ver. 3.3 .....	2563
6.10.31	One year extended warranty for GF3xx series .....	2566
6.10.32	Calibration including General maintenance GF3xx series .....	2567
6.10.33	ITC Advanced Furnace Application Course - additional student to on site class .....	2569
6.10.34	ITC Advanced Furnace Application Course - attendance, 1 pers. (3 days) .....	2571
6.10.35	ITC Advanced Furnace Applications Course - group up to 10 pers. (3 days) .....	2573
6.10.36	ITC Advanced Furnace Applications Course - group up to 6 persons (3 days) .....	2574
6.10.37	ITC Advanced Gas Detection Course - additional student to on site class, 1 pers. ....	2576
6.10.38	ITC Advanced Gas Detection Course - attendance, 1 pers. ....	2579
6.10.39	ITC Advanced Gas Detection Course – group of 10 pers. ....	2582
6.10.40	ITC Advanced Gas Detection Course - group of up to 6 pers. (3 days) .....	2585
6.10.41	ITC Advanced training - group of max. 6 pers, additional day 4 for on-site training .....	2588
6.10.42	ITC conference fee .....	2590
6.10.43	ITC Customized workshop - per person (per day) .....	2593
6.10.44	ITC Infrared application and system consultancy (per day) .....	2596

## Table of contents

6.10.45	ITC In-house training - additional attendance 1 pers. (per day).....	2599
6.10.46	ITC In-house training - group up to 10 pers. (per day) .....	2603
6.10.47	ITC Software course - attendance 1 pers. (per day) .....	2607
6.10.48	ITC Software course - group up to 10 pers. (per day) .....	2611
6.10.49	ITC Training 1 day - attendance 1 pers. ....	2615
6.10.50	ITC Training 1 day - group up to 10 pers. ....	2619
6.10.51	ITC Training 2 days - attendance 1 pers. ....	2623
6.10.52	ITC Training 2 days - group up to 10 pers. ....	2627
6.10.53	ITC Training 3 days - attendance 1 pers. ....	2631
6.10.54	ITC Training 3 days - group up to 10 pers. ....	2635
6.10.55	ITC travel time for instructor.....	2639
6.10.56	Travel and lodging expenses instructor (Center and South Africa) .....	2642
6.10.57	Travel and lodging expenses instructor (Europe, Balcans, Turkey, Cyprus) .....	2645
6.10.58	Travel and lodging expenses instructor (other) .....	2648
6.10.59	Travel and lodging expenses instructor (Russia/GUS, Middle East, North Africa).....	2651
6.10.60	Travel and lodging expenses instructor (various) .....	2654
6.11	Accessories for ThermoCAM GasFindIR series .....	2657
6.11.1	25 mm Lens .....	2658
6.11.2	50 mm Lens .....	2659
6.11.3	100 mm Lens.....	2660
6.11.4	Lens Hood for 25mm Lens .....	2661
6.11.5	Lens Hood for 50mm Lens .....	2662
6.11.6	One Year Extended Warranty for InSb GasFindIR .....	2663
6.11.7	25 mm Lens (for use with 21057-251 & 21057-200) .....	2664
6.11.8	100 mm Lens (for use with 21057-251 & 21057-200) .....	2665
6.11.9	One year extended warranty for GasFindIR LW .....	2666
6.11.10	Cable-BNC 6FT .....	2667
6.11.11	Cable-RS-232 Remote .....	2668
6.11.12	Cable S-Video GasFindIR.....	2669
6.11.13	A/V Cable for Archos PVR .....	2670
6.11.14	Personal Video Recorder .....	2671
6.11.15	DR 11 NiMH Battery.....	2672
6.11.16	Hard Transport Case .....	2673
6.11.17	Optical Cleaning Kit .....	2674
6.11.18	Battery Charger (NiMH) .....	2675
6.11.19	ITC Advanced Gas Detection Course - additional student to on site class, 1 pers. ....	2676
6.11.20	ITC Advanced Gas Detection Course - attendance, 1 pers.....	2679
6.11.21	ITC Advanced Gas Detection Course – group of 10 pers.....	2682
6.11.22	ITC Advanced Gas Detection Course - group of up to 6 pers. (3 days) .....	2685
6.11.23	ITC Advanced training - group of max. 6 pers, additional day 4 for on-site training .....	2688
6.11.24	Battery Charger for Li Ion Battery.....	2690
6.11.25	Li Ion Battery .....	2691
6.12	Accessories for Kxx series .....	2692

## Table of contents

6.12.1	Battery charger, incl. power supply with multi plugs (Exx, Kxx) .....	2693
6.12.2	In-truck charger .....	2694
6.12.3	Battery .....	2696
6.12.4	Neck strap .....	2697
6.12.5	Retractable lanyard .....	2698
6.12.6	Strap lanyard .....	2699
6.12.7	Tripod Adapter, Kxx .....	2700
6.12.8	Transport case Kxx .....	2701
6.13	Accessories for FLIR Ax5 series .....	2702
6.13.1	Ethernet cable CAT-6, 2m/6.6 ft. ....	2703
6.13.2	Base support .....	2705
6.13.3	Cable kit Mains (UK,EU,US) .....	2706
6.13.4	PoE injector .....	2707
6.13.5	Transport case Ax5 .....	2708
6.13.6	Table stand kit .....	2709
6.13.7	Gigabit PoE injector 16 W, with multi-plugs .....	2711
6.13.8	Cable M12 Pigtail .....	2712
6.13.9	Cable M12 Sync .....	2713
6.13.10	Focus adjustment tool .....	2714
6.13.11	FLIR Tools .....	2715
6.13.12	FLIR Tools+ (license only) .....	2721
6.13.13	FLIR IR Camera Player .....	2726
6.13.14	ITC Advanced General Thermography Course - attendance, 1 pers. ....	2730
6.13.15	ITC Advanced General Thermography Course- group of 10 pers. ....	2734
6.13.16	ITC conference fee .....	2738
6.13.17	ITC Customized workshop - per person (per day) .....	2741
6.13.18	ITC Infrared application and system consultancy (per day) .....	2744
6.13.19	ITC In-house training - additional attendance 1 pers. (per day) .....	2747
6.13.20	ITC In-house training - group up to 10 pers. (per day) .....	2751
6.13.21	ITC Level 1 Thermography Course - additional student to on site class, 1 pers. ....	2755
6.13.22	ITC Level 1 Thermography Course - attendance, 1 pers. ....	2759
6.13.23	ITC Level 1 Thermography Course – group of 10 pers. ....	2763
6.13.24	ITC Level 2 Thermography Course - additional student to on site class, 1 pers. ....	2767
6.13.25	ITC Level 2 Thermography Course - attendance, 1 pers. ....	2771
6.13.26	ITC Level 2 Thermography Course – group of 10 pers. ....	2775
6.13.27	ITC R&D basics for industry users - group up to 6 pers. (2 days) .....	2779
6.13.28	ITC Short course Fever Screening - additional student to on site class (2 days) .....	2782
6.13.29	ITC Short course Fever Screening - attendance 1 pers. (2 days) .....	2785
6.13.30	ITC Short course Fever Screening - inclusive 10 pers. (2 days) .....	2788
6.13.31	ITC Short course Introduction to thermography - inclusive 10 pers. (1 day) .....	2791

6.13.32	ITC Short course Introduction to thermography -attendance 1 pers. (1 day) .....	2795
6.13.33	ITC Software course - attendance 1 pers. (per day) .....	2799
6.13.34	ITC Software course - group up to 10 pers. (per day) .....	2803
6.13.35	ITC Training 1 day - attendance 1 pers. ....	2807
6.13.36	ITC Training 1 day - group up to 10 pers. ....	2811
6.13.37	ITC Training 2 days - attendance 1 pers. ....	2815
6.13.38	ITC Training 2 days - group up to 10 pers. ....	2819
6.13.39	ITC Training 3 days - attendance 1 pers. ....	2823
6.13.40	ITC Training 3 days - group up to 10 pers. ....	2827
6.13.41	ITC travel time for instructor.....	2831
6.13.42	Travel and lodging expenses instructor (Center and South Africa) .....	2834
6.13.43	Travel and lodging expenses instructor (Europe, Balcans, Turkey, Cyprus) .....	2837
6.13.44	Travel and lodging expenses instructor (other) .....	2840
6.13.45	Travel and lodging expenses instructor (Russia/GUS, Middle East, North Africa).....	2843
6.13.46	Travel and lodging expenses instructor (various) .....	2846
6.14	Accessories for FLIR AX series .....	2849
6.14.1	Cable, M12 to pigtail (FLIR AX series) .....	2850
6.14.2	Ethernet cable, M12 to RJ45 .....	2851
6.14.3	PoE injector, incl.cables .....	2852
6.14.4	Cooling bracket.....	2853
6.15	Accessories for FLIR A3xx series .....	2854
6.15.1	IR lens, f = 30 mm, 15° incl. case .....	2855
6.15.2	IR lens, f = 10 mm, 45° incl. case .....	2857
6.15.3	Close-up 4x (100 µm) incl. case.....	2859
6.15.4	Close-up 2x (50 µm) incl. case.....	2861
6.15.5	IR lens, 76 mm (6°) with case and mounting support for A3xx, A3xxsc .....	2863
6.15.6	IR lens, 4 mm (90°) with case and mounting support for A3xx, A3xxsc .....	2864
6.15.7	Close-up 1x (25 µm) incl. case and mounting support for A3xx, A3xxsc .....	2865
6.15.8	High temp. option +1200°C/+2192°F for FLIR T/B2xx to T/B4xx and A3xx, A3xxf, A3xxpt, A3xxsc series.....	2867
6.15.9	Power cord EU.....	2869
6.15.10	Power cord US.....	2871
6.15.11	Power cord UK.....	2873
6.15.12	Power supply, incl. multi plugs, for A3xx, A3xxsc, A6xx and A6xxsc .....	2875
6.15.13	Power supply for A3XX f, IP66.....	2877
6.15.14	Video cable, 3.0 m/9.8 ft. ....	2879
6.15.15	Ethernet cable CAT-6, 2m/6.6 ft. ....	2880
6.15.16	Power cable, pigtailed.....	2882
6.15.17	Hard transport case for A3xx, A3xxsc, A6xx and A6xxsc series .....	2884
6.15.18	Cardboard box for A3xx, A3xxsc, A6xx and A6xxsc series .....	2886
6.15.19	Fixed Housing for A3xx 25°/45°/90° .....	2888
6.15.20	Fixed Housing for A3XX 7°/15° .....	2889
6.15.21	FLIR Tools .....	2890
6.15.22	FLIR Tools+ (license only) .....	2896
6.15.23	FLIR IR Camera Player .....	2901
6.15.24	FLIR Tools Mobile (Android Application) .....	2905

## Table of contents

6.15.25	FLIR Tools Mobile (iPad/iPhone Application) .....	2908
6.15.26	ThermoVision™ System Developers Kit Ver. 2.6 .....	2910
6.15.27	ThermoVision LabVIEW Digital Toolkit Ver. 3.3 .....	2913
6.15.28	One year extended warranty for A3xx, A3xxsc series .....	2916
6.15.29	Calibration including General maintenance A3xx, A3xxsc series .....	2917
6.15.30	ITC Advanced General Thermography Course - attendance, 1 pers. ....	2918
6.15.31	ITC Advanced General Thermography Course- group of 10 pers.....	2922
6.15.32	ITC Advanced Thermal applications course - attendance 1 pers. (3 days).....	2926
6.15.33	ITC Advanced Thermal applications course - group up to 10 pers. (3 days) .....	2929
6.15.34	ITC Advanced Thermal measurements (R&D) - attendance 1 pers. (2 days).....	2932
6.15.35	ITC Advanced Thermal Measurements (R&D) - group up to 6 pers. (2 days) .....	2934
6.15.36	ITC Advanced training - group of max. 6 pers, additional day 3 for on-site training, .....	2936
6.15.37	ITC conference fee .....	2938
6.15.38	ITC Customized workshop - per person (per day) .....	2941
6.15.39	ITC Infrared application and system consultancy (per day) .....	2944
6.15.40	ITC In-house R&D training ATS products - group up to 4 pers. (2 days) .....	2947
6.15.41	ITC In-house training - additional attendance 1 pers. (per day).....	2949
6.15.42	ITC In-house training - group up to 10 pers. (per day) .....	2953
6.15.43	ITC Level 1 Thermography Course - additional student to on site class, 1 pers.....	2957
6.15.44	ITC Level 1 Thermography Course - attendance, 1 pers.....	2961
6.15.45	ITC Level 1 Thermography Course – group of 10 pers.....	2965
6.15.46	ITC Level 2 Thermography Course - additional student to on site class, 1 pers.....	2969
6.15.47	ITC Level 2 Thermography Course - attendance, 1 pers.....	2973
6.15.48	ITC Level 2 Thermography Course – group of 10 pers.....	2977
6.15.49	ITC R&D basics for industry users - group up to 6 pers. (2 days).....	2981
6.15.50	ITC Short course Fever Screening - additional student to on site class (2 days) .....	2984
6.15.51	ITC Short course Fever Screening - attendance 1 pers. (2 days).....	2987
6.15.52	ITC Short course Fever Screening - inclusive 10 pers. (2 days) .....	2990
6.15.53	ITC Short course Introduction to thermography - inclusive 10 pers. (1 day) .....	2993
6.15.54	ITC Short course Introduction to thermography -attendance 1 pers. (1 day) .....	2997
6.15.55	ITC Short courses - group of max. 6 pers, additional day 3 for on-site training.....	3001
6.15.56	ITC Software course - attendance 1 pers. (per day) .....	3003

## Table of contents

6.15.57	ITC Software course - group up to 10 pers. (per day) .....	3007
6.15.58	ITC Training 1 day - attendance 1 pers. ....	3011
6.15.59	ITC Training 1 day - group up to 10 pers. ....	3015
6.15.60	ITC Training 2 days - attendance 1 pers. ....	3019
6.15.61	ITC Training 2 days - group up to 10 pers. ....	3023
6.15.62	ITC Training 3 days - attendance 1 pers. ....	3027
6.15.63	ITC Training 3 days - group up to 10 pers. ....	3031
6.15.64	ITC travel time for instructor.....	3035
6.15.65	Travel and lodging expenses instructor (Center and South Africa) .....	3038
6.15.66	Travel and lodging expenses instructor (Europe, Balcans, Turkey, Cyprus) .....	3041
6.15.67	Travel and lodging expenses instructor (other) .....	3044
6.15.68	Travel and lodging expenses instructor (Russia/GUS, Middle East, North Africa).....	3047
6.15.69	Travel and lodging expenses instructor (various) .....	3050
6.16	Accessories for FLIR A3xxf series .....	3053
6.16.1	High temp. option +1200°C/+2192°F for FLIR T/B2xx to T/B4xx and A3xx, A3xxf, A3xxpt, A3xxsc series .....	3054
6.16.2	Power supply for A3XX f, IP66.....	3056
6.16.3	Video cable, 3.0 m/9.8 ft. ....	3058
6.16.4	Ethernet cable CAT-6, 2m/6.6 ft. ....	3059
6.16.5	Power cable, pigtailed.....	3061
6.16.6	FLIR Tools .....	3063
6.16.7	FLIR Tools+ (license only) .....	3069
6.16.8	FLIR IR Camera Player .....	3074
6.16.9	FLIR Tools Mobile (Android Application) .....	3078
6.16.10	FLIR Tools Mobile (iPad/iPhone Application) .....	3081
6.16.11	ThermoVision™ System Developers Kit Ver. 2.6 .....	3083
6.16.12	ThermoVision LabVIEW Digital Toolkit Ver. 3.3 .....	3086
6.16.13	HARD CASE - WITH FOAM, F - SERIES .....	3089
6.16.14	PEDESTAL MOUNT ASSY - F-SERIES .....	3090
6.16.15	POLE ADAPTER - F-SERIES .....	3091
6.16.16	WALL MOUNT ASSY - F-SERIES .....	3092
6.16.17	FLIR Sensors Manager, pro .....	3093
6.16.18	ITC Advanced General Thermography Course - attendance, 1 pers. ....	3096
6.16.19	ITC Advanced General Thermography Course- group of 10 pers.....	3100
6.16.20	ITC Advanced Thermal applications course - attendance 1 pers. (3 days).....	3104
6.16.21	ITC Advanced Thermal applications course - group up to 10 pers. (3 days) .....	3107
6.16.22	ITC Automated safety systems training - attendance 1 pers (3 days) .....	3110
6.16.23	ITC Automated safety systems training - group of up to 10 pers (3 days) .....	3112
6.16.24	ITC conference fee .....	3114
6.16.25	ITC Customized workshop - per person (per day) .....	3117
6.16.26	ITC Infrared application and system consultancy (per day) .....	3120
6.16.27	ITC In-house training - additional attendance 1 pers. (per day).....	3123
6.16.28	ITC In-house training - group up to 10 pers. (per day) .....	3127
6.16.29	ITC Level 1 Thermography Course - additional student to on site class, 1 pers.....	3131

## Table of contents

6.16.30	ITC Level 1 Thermography Course - attendance, 1 pers.....	3135
6.16.31	ITC Level 1 Thermography Course – group of 10 pers.....	3139
6.16.32	ITC Level 2 Thermography Course - additional student to on site class, 1 pers.....	3143
6.16.33	ITC Level 2 Thermography Course - attendance, 1 pers.....	3147
6.16.34	ITC Level 2 Thermography Course – group of 10 pers.....	3151
6.16.35	ITC R&D basics for industry users - group up to 6 pers. (2 days).....	3155
6.16.36	ITC Short course Fever Screening - additional student to on site class (2 days) .....	3158
6.16.37	ITC Short course Fever Screening - attendance 1 pers. (2 days).....	3161
6.16.38	ITC Short course Fever Screening - inclusive 10 pers. (2 days) .....	3164
6.16.39	ITC Short course Introduction to thermography - inclusive 10 pers. (1 day) .....	3167
6.16.40	ITC Short course Introduction to thermography -attendance 1 pers. (1 day) .....	3171
6.16.41	ITC Software course - attendance 1 pers. (per day) .....	3175
6.16.42	ITC Software course - group up to 10 pers. (per day) .....	3179
6.16.43	ITC Training 1 day - attendance 1 pers. ....	3183
6.16.44	ITC Training 1 day - group up to 10 pers. ....	3187
6.16.45	ITC Training 2 days - attendance 1 pers. ....	3191
6.16.46	ITC Training 2 days - group up to 10 pers. ....	3195
6.16.47	ITC Training 3 days - attendance 1 pers. ....	3199
6.16.48	ITC Training 3 days - group up to 10 pers. ....	3203
6.16.49	ITC travel time for instructor.....	3207
6.16.50	Travel and lodging expenses instructor (Center and South Africa) .....	3210
6.16.51	Travel and lodging expenses instructor (Europe, Balkans, Turkey, Cyprus) .....	3213
6.16.52	Travel and lodging expenses instructor (other) .....	3216
6.16.53	Travel and lodging expenses instructor (Russia/GUS, Middle East, North Africa).....	3219
6.16.54	Travel and lodging expenses instructor (various) .....	3222
6.17	Accessories for FLIR A3xxpt series.....	3225
6.17.1	High temp. option +1200°C/+2192°F for FLIR T/B2xx to T/B4xx and A3xx, A3xxf, A3xxpt, A3xxsc series.....	3226
6.17.2	ADAPTER PLATE - PT-SERIES .....	3228
6.17.3	JOYSTICK ASSY, NEXUS CONSOLE .....	3229
6.17.4	PEDESTAL MOUNT ASSY - PT-SERIES .....	3230
6.17.5	POLE ADAPTER - PT-SERIES .....	3232
6.17.6	POWER SUPPLY ASSY, 24VAC - PT-series .....	3233
6.17.7	WALL MOUNT ASSY - PT-SERIES.....	3234
6.17.8	Hard case - PT-SERIES .....	3235
6.17.9	FLIR Sensors Manager, pro .....	3236
6.17.10	ITC Advanced General Thermography Course - attendance, 1 pers. ....	3239
6.17.11	ITC Advanced General Thermography Course- group of 10 pers.....	3243
6.17.12	ITC Advanced Thermal applications course - attendance 1 pers. (3 days).....	3247



## Table of contents

6.17.13	ITC Advanced Thermal applications course - group up to 10 pers. (3 days) .....	3250
6.17.14	ITC Automated safety systems training - attendance 1 pers (3 days) .....	3253
6.17.15	ITC Automated safety systems training - group of up to 10 pers (3 days) .....	3255
6.17.16	ITC conference fee .....	3257
6.17.17	ITC Customized workshop - per person (per day) .....	3260
6.17.18	ITC Infrared application and system consultancy (per day) .....	3263
6.17.19	ITC In-house training - additional attendance 1 pers. (per day).....	3266
6.17.20	ITC In-house training - group up to 10 pers. (per day) .....	3270
6.17.21	ITC Level 1 Thermography Course - additional student to on site class, 1 pers.....	3274
6.17.22	ITC Level 1 Thermography Course - attendance, 1 pers.....	3278
6.17.23	ITC Level 1 Thermography Course – group of 10 pers.....	3282
6.17.24	ITC Level 2 Thermography Course - additional student to on site class, 1 pers.....	3286
6.17.25	ITC Level 2 Thermography Course - attendance, 1 pers.....	3290
6.17.26	ITC Level 2 Thermography Course – group of 10 pers.....	3294
6.17.27	ITC R&D basics for industry users - group up to 6 pers. (2 days).....	3298
6.17.28	ITC Short course Fever Screening - additional student to on site class (2 days) .....	3301
6.17.29	ITC Short course Fever Screening - attendance 1 pers. (2 days).....	3304
6.17.30	ITC Short course Fever Screening - inclusive 10 pers. (2 days) .....	3307
6.17.31	ITC Short course Introduction to thermography - inclusive 10 pers. (1 day) .....	3310
6.17.32	ITC Short course Introduction to thermography -attendance 1 pers. (1 day) .....	3314
6.17.33	ITC Software course - attendance 1 pers. (per day) .....	3318
6.17.34	ITC Software course - group up to 10 pers. (per day) .....	3322
6.17.35	ITC Training 1 day - attendance 1 pers. ....	3326
6.17.36	ITC Training 1 day - group up to 10 pers. ....	3330
6.17.37	ITC Training 2 days - attendance 1 pers. ....	3334
6.17.38	ITC Training 2 days - group up to 10 pers. ....	3338
6.17.39	ITC Training 3 days - attendance 1 pers. ....	3342
6.17.40	ITC Training 3 days - group up to 10 pers. ....	3346
6.17.41	ITC travel time for instructor.....	3350
6.17.42	Travel and lodging expenses instructor (Center and South Africa) .....	3353
6.17.43	Travel and lodging expenses instructor (Europe, Balcans, Turkey, Cyprus) .....	3356
6.17.44	Travel and lodging expenses instructor (other) .....	3359
6.17.45	Travel and lodging expenses instructor (Russia/GUS, Middle East, North Africa).....	3362
6.17.46	Travel and lodging expenses instructor (various) .....	3365
6.18	Accessories for FLIR A6xx series .....	3368
6.18.1	IR lens, f=41.3 mm (15°) with case .....	3369

## Table of contents

6.18.2	IR lens, f=24.6 mm (25°) with case .....	3371
6.18.3	IR lens, f=13.1 mm (45°) with case .....	3373
6.18.4	Close-up IR lens, 2.9× (50 µm) with case .....	3375
6.18.5	Close-up IR lens, 5.8× (100 µm) with case .....	3377
6.18.6	IR lens, f=6.5 mm (80°) with case .....	3379
6.18.7	IR lens, f=88.9 mm (7°) with case and support for A6xx/A6xxsc .....	3381
6.18.8	Close-up IR lens, 1.5× (25 µm) with case .....	3383
6.18.9	High temp option +300°C to 2000°C (+572°F to 3632°F) for FLIR A6xxsc and T6xx .....	3385
6.18.10	Power cord EU .....	3387
6.18.11	Power cord US .....	3389
6.18.12	Power cord UK .....	3391
6.18.13	Power supply, incl. multi plugs, for A3xx, A3xxsc, A6xx and A6xxsc .....	3393
6.18.14	Power supply for A3XX f, IP66 .....	3395
6.18.15	USB cable Std A <-> Mini-B .....	3397
6.18.16	Ethernet cable CAT-6, 2m/6.6 ft. ....	3400
6.18.17	Power cable, pigtailed .....	3402
6.18.18	Hard transport case for A3xx, A3xxsc, A6xx and A6xxsc series .....	3404
6.18.19	Cardboard box for A3xx, A3xxsc, A6xx and A6xxsc series .....	3406
6.18.20	Filter holder for A6xx lenses .....	3408
6.18.21	FLIR Tools .....	3409
6.18.22	FLIR Tools+ (license only) .....	3415
6.18.23	FLIR IR Camera Player .....	3420
6.18.24	ThermoVision™ System Developers Kit Ver. 2.6 .....	3424
6.18.25	ThermoVision LabVIEW Digital Toolkit Ver. 3.3 .....	3427
6.18.26	One year extended warranty for A6xx, A6xxsc series .....	3430
6.18.27	Calibration including General maintenance A6xx, A6xxsc series (fixed cameras) .....	3431
6.18.28	ITC Advanced General Thermography Course - attendance, 1 pers. ....	3432
6.18.29	ITC Advanced General Thermography Course- group of 10 pers. ....	3436
6.18.30	ITC Advanced Thermal applications course - attendance 1 pers. (3 days) .....	3440
6.18.31	ITC Advanced Thermal applications course - group up to 10 pers. (3 days) .....	3443
6.18.32	ITC Advanced Thermal measurements (R&D) - attendance 1 pers. (2 days) .....	3446
6.18.33	ITC Advanced Thermal Measurements (R&D) - group up to 6 pers. (2 days) .....	3448
6.18.34	ITC Advanced training - group of max. 6 pers, additional day 3 for on-site training, .....	3450
6.18.35	ITC conference fee .....	3452
6.18.36	ITC Customized workshop - per person (per day) .....	3455
6.18.37	ITC Infrared application and system consultancy (per day) .....	3458
6.18.38	ITC In-house R&D training ATS products - group up to 4 pers. (2 days) .....	3461
6.18.39	ITC In-house training - additional attendance 1 pers. (per day) .....	3463
6.18.40	ITC In-house training - group up to 10 pers. (per day) .....	3467
6.18.41	ITC Level 1 Thermography Course - additional student to on site class, 1 pers. ....	3471

## Table of contents

6.18.42	ITC Level 1 Thermography Course - attendance, 1 pers.....	3475
6.18.43	ITC Level 1 Thermography Course – group of 10 pers.....	3479
6.18.44	ITC Level 2 Thermography Course - additional student to on site class, 1 pers.....	3483
6.18.45	ITC Level 2 Thermography Course - attendance, 1 pers.....	3487
6.18.46	ITC Level 2 Thermography Course – group of 10 pers.....	3491
6.18.47	ITC R&D basics for industry users - group up to 6 pers. (2 days).....	3495
6.18.48	ITC Short course Fever Screening - additional student to on site class (2 days) .....	3498
6.18.49	ITC Short course Fever Screening - attendance 1 pers. (2 days).....	3501
6.18.50	ITC Short course Fever Screening - inclusive 10 pers. (2 days) .....	3504
6.18.51	ITC Short course Introduction to thermography - inclusive 10 pers. (1 day) .....	3507
6.18.52	ITC Short course Introduction to thermography -attendance 1 pers. (1 day) .....	3511
6.18.53	ITC Short courses - group of max. 6 pers, additional day 3 for on-site training.....	3515
6.18.54	ITC Software course - attendance 1 pers. (per day) .....	3517
6.18.55	ITC Software course - group up to 10 pers. (per day) .....	3521
6.18.56	ITC Training 1 day - attendance 1 pers. ....	3525
6.18.57	ITC Training 1 day - group up to 10 pers. ....	3529
6.18.58	ITC Training 2 days - attendance 1 pers. ....	3533
6.18.59	ITC Training 2 days - group up to 10 pers. ....	3537
6.18.60	ITC Training 3 days - attendance 1 pers. ....	3541
6.18.61	ITC Training 3 days - group up to 10 pers. ....	3545
6.18.62	ITC travel time for instructor.....	3549
6.18.63	Travel and lodging expenses instructor (Center and South Africa) .....	3552
6.18.64	Travel and lodging expenses instructor (Europe, Balcans, Turkey, Cyprus) .....	3555
6.18.65	Travel and lodging expenses instructor (other) .....	3558
6.18.66	Travel and lodging expenses instructor (Russia/GUS, Middle East, North Africa).....	3561
6.18.67	Travel and lodging expenses instructor (various) .....	3564
6.19	Accessories for FLIR R&D series.....	3567
6.19.1	Lens BB 200 mm f/3 Bayonet.....	3568
6.19.2	Lens SWB 100 mm f/3 Bayonet.....	3569
6.19.3	Lens SWB 50 mm f/3 Bayonet.....	3570
6.19.4	Lens SWB 27 mm f/3 Bayonet.....	3571
6.20	Accessories for FLIR T&M instruments .....	3572
6.20.1	20 m (66') plumbing spool (no camera, need VSC25 or VSC28).....	3573
6.20.2	25 mm camera head for spool, spool (VCS-20 or VCS-30) needed for operation .....	3575
6.20.3	28 mm camera head for spool, spool (VCS-20 or VCS-30) needed for operation .....	3577
6.20.4	3.9 mm (0.15") camera with 1 m (3.3') flexible probe—QVGA via short focus.....	3579
6.20.5	30 cm (12") stainless steel rigid probe .....	3581

6.20.6	30 m (98') plumbing spool (no camera, need VSC25 or VSC28) .....	3583
6.20.7	4.1 mm (0.16") camera with 2 m (6.6') semi-rigid probe—QVGA via short focus .....	3585
6.20.8	43 cm (17") stainless steel rigid probe with rotating mirror .....	3587
6.20.9	5.8 mm (0.23") camera with 1 m (3.3') semi-rigid probe—VGA via long focus .....	3589
6.20.10	5.8 mm (0.23") camera with 1 m (3.3') semi-rigid probe—VGA via macro short focus .....	3591
6.20.11	5.8 mm (0.23") camera with 2 m (78") semi-rigid probe—VGA via long focus .....	3593
6.20.12	5.8 mm (0.23") camera with 2 m (78") semi-rigid probe—VGA via macro short focus .....	3595
6.20.13	5.8 mm cam with 20 m fiberglass-reinforced probe—QVGA via macro short focus .....	3597
6.20.14	5.8 mm camera with 30 m fiberglass-reinforced probe—QVGA via SF .....	3599
6.20.15	8 mm (0.31") camera with 1 m (3.3') semi-rigid probe—VGA via long focus .....	3601
6.20.16	8 mm (0.31") camera with 2 m (6.6') semi-rigid probe—VGA via long focus .....	3603
6.20.17	AC Current Line splitter .....	3605
6.20.18	Belt clip holster for TG165 .....	3607
6.20.19	CAT IV Insulated Alligator Probes .....	3608
6.20.20	CAT IV Silicone Test Leads .....	3610
6.20.21	EVA Protective Case .....	3612
6.20.22	General Purpose Accessory Case .....	3613
6.20.23	Impact Pin Moisture Probe .....	3615
6.20.24	Magnetic Hanging Strap for DM9x, IM7x Series .....	3617
6.20.25	Protective Case for CM7x and CM8x Series .....	3619
6.20.26	Protective Case for DM9x and IM7x Series .....	3621
6.20.27	Protective case for TG165 .....	3622
6.20.28	Replaceable External Moisture Pin Probe for MR77 .....	3623
6.20.29	Replaceable T/RH Probe for MR77 .....	3625
6.20.30	Thermocouple Probe with Adapter .....	3627
6.20.31	Two-channel camera, 5.8 mm diameter with 1 m probe .....	3629
6.20.32	Two-way 6 mm (0.24") articulating camera with 1 m (3.3') probe with long focus .....	3631
6.20.33	Two-way 6 mm (0.24") articulating camera with 1 m (3.3') probe with macro short focus .....	3633
6.20.34	Two-way 6 mm (0.24") articulating camera with 2 m (78") probe with long focus .....	3635
6.20.35	Two-way 6 mm (0.24") articulating camera with 2 m (78") probe with short macro focus .....	3637
6.20.36	Wireless handset for the VS70 system .....	3639
6.20.37	Wireless four-way articulating camera, focal length 25–60 mm .....	3641
6.20.38	Wireless four-way articulating camera, focal length 60 mm to infinity .....	3643
6.20.39	Wireless two-way 6 mm (0.24") articulating camera with 1 m (3.3') probe with long focus .....	3645
6.20.40	Wireless two-way 6 mm (0.24") articulating camera with 1 m (3.3') probe with macro short focus .....	3647
6.20.41	Wireless two-way 6 mm (0.24") articulating camera with 2 m (78") probe with long focus .....	3649

6.20.42	Wireless two-way 6 mm (0.24") articulating camera with 2 m (78") probe with short macro focus .....	3651
6.21	Accessories for FLIR P6xx series (discontinued camera series) .....	3653
6.21.1	IR Window 2 in .....	3654
6.21.2	IR Window 3 in. ....	3656
6.21.3	IR Window 4 in. ....	3658
6.21.4	SS IR window 2" .....	3660
6.21.5	SS IR window 3" .....	3662
6.21.6	SS IR window 4" .....	3664
6.21.7	Close-up IR lens 0.5X, f = 75 mm (fits 24° IR lens) for ThermoCAM and FLIR 600 series.....	3666
6.21.8	IR lens, f = 76 mm, 12°, incl. case for FLIR 600 series .....	3667
6.21.9	IR lens, f = 131 mm, 7°, incl. case for FLIR 600 series .....	3668
6.21.10	IR lens, f = 19 mm, 45°, incl. case for FLIR 600 series .....	3669
6.21.11	IR lens, f = 38 mm, 24°, incl. case for FLIR 600 series .....	3670
6.21.12	Macro lens, 1x (25 um) with case .....	3671
6.21.13	Protective window (fits 24°) with case .....	3672
6.21.14	High temperature option +2000°C/+3632°F .....	3673
6.21.15	High temperature option +1500°C/+2732°F .....	3674
6.21.16	Battery charger, incl. power supply with multi plugs .....	3675
6.21.17	Power supply, incl. multi plugs.....	3677
6.21.18	Li-Ion Battery pack 7.4V 33Wh .....	3680
6.21.19	Memory card SDHC 4 GB.....	3682
6.21.20	USB cable Std A <-> Mini-B .....	3684
6.21.21	Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft. ....	3687
6.21.22	Video cable, RCA <-> RCA, 2.0 m/6.6 ft. ....	3689
6.21.23	FireWire cable 4/6, 2.0 m/6.6 ft.....	3690
6.21.24	FireWire cable 6/6, 2.0 m/6.6 ft.....	3691
6.21.25	Hard transport case for FLIR B/P/SC6xx .....	3692
6.21.26	Option for P/B6xx: Radiometric IR video streaming using FireWire .....	3693
6.21.27	Headset, 3.5 mm plug.....	3694
6.21.28	Wi-Fi USB micro adapter .....	3695
6.21.29	Bluetooth Headset.....	3696
6.21.30	Bluetooth USB micro adapter .....	3698
6.21.31	FLIR Reporter Professional (license only).....	3699
6.21.32	FLIR Reporter Professional (license only).....	3702
6.21.33	FLIR Tools .....	3705
6.21.34	FLIR Tools+ (license only) .....	3711
6.21.35	FLIR IR Camera Player .....	3716
6.21.36	FLIR Tools Mobile (Android Application) .....	3720
6.21.37	FLIR Tools Mobile (iPad/iPhone Application) .....	3723
6.21.38	FLIR Tools (MacOS Application) .....	3725
6.21.39	One year extended warranty for P6xx series.....	3727
6.21.40	Calibration including General maintenance P6xx series .....	3728
6.21.41	Certification DIN EN ISO 9712 TT Category 1 .....	3729
6.21.42	DIN EN ISO 9712 TT Category 1 Certification course, excl. Certification, 1 pers. ....	3731
6.21.43	DIN EN ISO 9712 TT Category 1 Certification course, excl. Certification, group up to 10 pers. ....	3733

## Table of contents

6.21.44	ITC Advanced General Thermography Course - attendance, 1 pers. ....	3735
6.21.45	ITC Advanced General Thermography Course- group of 10 pers.....	3739
6.21.46	ITC Advanced Thermal applications course - attendance 1 pers. (3 days).....	3743
6.21.47	ITC Advanced Thermal applications course - group up to 10 pers. (3 days) .....	3746
6.21.48	ITC conference fee .....	3749
6.21.49	ITC Getting Started with Thermography - attendance, 1 pers.....	3752
6.21.50	ITC Getting Started with Thermography (evening or weekend) - attendance, 1 pers. ....	3754
6.21.51	ITC In-house training - additional attendance 1 pers. (per day).....	3756
6.21.52	ITC In-house training - group up to 10 pers. (per day) .....	3760
6.21.53	ITC Level 1 Thermography Course - additional student to on site class, 1 pers.....	3764
6.21.54	ITC Level 1 Thermography Course - attendance, 1 pers.....	3768
6.21.55	ITC Level 1 Thermography Course – group of 10 pers.....	3772
6.21.56	ITC Level 2 Thermography Course - additional student to on site class, 1 pers.....	3776
6.21.57	ITC Level 2 Thermography Course - attendance, 1 pers.....	3780
6.21.58	ITC Level 2 Thermography Course – group of 10 pers.....	3784
6.21.59	ITC Practical Course - Solar panel inspection - attendance, 1 pers (2 days).....	3788
6.21.60	ITC Practical Course - Solar panel inspection - group up to 10 pers (2 days) .....	3791
6.21.61	ITC Short course electrical thermography - attendance 1 pers. (2 days) .....	3794
6.21.62	ITC Short course electrical thermography - inclusive 10 pers. (2 days) .....	3797
6.21.63	ITC Short course Introduction to thermography - inclusive 10 pers. (1 day) .....	3800
6.21.64	ITC Short course Introduction to thermography -attendance 1 pers. (1 day) .....	3804
6.21.65	ITC Software course - attendance 1 pers. (per day) .....	3808
6.21.66	ITC Software course - group up to 10 pers. (per day) .....	3812
6.21.67	ITC Training 1 day - attendance 1 pers. ....	3816
6.21.68	ITC Training 1 day - group up to 10 pers. ....	3820
6.21.69	ITC Training 2 days - attendance 1 pers. ....	3824
6.21.70	ITC Training 2 days - group up to 10 pers. ....	3828
6.21.71	ITC Training 3 days - attendance 1 pers. ....	3832
6.21.72	ITC Training 3 days - group up to 10 pers. ....	3836
6.21.73	ITC Training FLIR Software - attendance 1 pers. (1 day) .....	3840
6.21.74	ITC Training FLIR Software - attendance 1 pers. (2 days) .....	3842
6.21.75	ITC travel time for instructor.....	3844
6.21.76	Repeat Certification EN473 IT Category 1 .....	3847
6.21.77	Travel and lodging expenses instructor (Center and South Africa) .....	3849

## Table of contents

6.21.78	Travel and lodging expenses instructor (Europe, Balkans, Turkey, Cyprus) .....	3852
6.21.79	Travel and lodging expenses instructor (other) .....	3855
6.21.80	Travel and lodging expenses instructor (Russia/GUS, Middle East, North Africa) .....	3858
6.21.81	Travel and lodging expenses instructor (various) .....	3861
6.22	Accessories for FLIR B6xx series (discontinued camera series) .....	3864
6.22.1	IR Window 2 in .....	3865
6.22.2	IR Window 3 in .....	3867
6.22.3	IR Window 4 in .....	3869
6.22.4	SS IR window 2" .....	3871
6.22.5	SS IR window 3" .....	3873
6.22.6	SS IR window 4" .....	3875
6.22.7	Close-up IR lens 0.5X, f = 75 mm (fits 24° IR lens) for ThermoCAM and FLIR 600 series .....	3877
6.22.8	IR lens, f = 76 mm, 12°, incl. case for FLIR 600 series .....	3878
6.22.9	IR lens, f = 131 mm, 7°, incl. case for FLIR 600 series .....	3879
6.22.10	IR lens, f = 19 mm, 45°, incl. case for FLIR 600 series .....	3880
6.22.11	IR lens, f = 38 mm, 24°, incl. case for FLIR 600 series .....	3881
6.22.12	Macro lens, 1x (25 um) with case .....	3882
6.22.13	Protective window (fits 24°) with case .....	3883
6.22.14	High temperature option +2000°C/+3632°F .....	3884
6.22.15	High temperature option +1500°C/+2732°F .....	3885
6.22.16	Battery charger, incl. power supply with multi plugs .....	3886
6.22.17	Power supply, incl. multi plugs .....	3888
6.22.18	Li-Ion Battery pack 7.4V 33Wh .....	3891
6.22.19	Memory card SDHC 4 GB .....	3893
6.22.20	USB cable Std A <-> Mini-B .....	3895
6.22.21	Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft. ....	3898
6.22.22	Video cable, RCA <-> RCA, 2.0 m/6.6 ft. ....	3900
6.22.23	FireWire cable 4/6, 2.0 m/6.6 ft. ....	3901
6.22.24	FireWire cable 6/6, 2.0 m/6.6 ft. ....	3902
6.22.25	Hard transport case for FLIR B/P/SC6xx .....	3903
6.22.26	Option for P/B6xx: Radiometric IR video streaming using FireWire .....	3904
6.22.27	Headset, 3.5 mm plug .....	3905
6.22.28	Wi-Fi USB micro adapter .....	3906
6.22.29	Bluetooth Headset .....	3907
6.22.30	Bluetooth USB micro adapter .....	3909
6.22.31	FLIR Reporter Professional (license only) .....	3910
6.22.32	FLIR Reporter Professional (license only) .....	3913
6.22.33	FLIR Tools .....	3916
6.22.34	FLIR Tools+ (license only) .....	3922
6.22.35	FLIR IR Camera Player .....	3927
6.22.36	FLIR Tools Mobile (Android Application) .....	3931
6.22.37	FLIR Tools Mobile (iPad/iPhone Application) .....	3934
6.22.38	FLIR Tools (MacOS Application) .....	3936
6.22.39	One year extended warranty for B6xx series .....	3938
6.22.40	Calibration including General maintenance B6xx series .....	3939
6.22.41	Certification DIN EN ISO 9712 TT Category 1 .....	3940

## Table of contents

6.22.42	DIN EN ISO 9712 TT Category 1 Certification course, excl. Certification, 1 pers. ....	3942
6.22.43	DIN EN ISO 9712 TT Category 1 Certification course, excl. Certification, group up to 10 pers. ....	3944
6.22.44	ITC Advanced Building – attendance 1 pers. ....	3946
6.22.45	ITC Advanced Building – group of 10 pers. ....	3948
6.22.46	ITC Advanced General Thermography Course - attendance, 1 pers. ....	3950
6.22.47	ITC Advanced General Thermography Course- group of 10 pers. ....	3954
6.22.48	ITC conference fee ....	3958
6.22.49	ITC Getting Started with Thermography - attendance, 1 pers. ....	3961
6.22.50	ITC Getting Started with Thermography (evening or weekend) - attendance, 1 pers. ....	3963
6.22.51	ITC In-house training - additional attendance 1 pers. (per day) ....	3965
6.22.52	ITC In-house training - group up to 10 pers. (per day) ....	3969
6.22.53	ITC Level 1 Thermography Course - additional student to on site class, 1 pers. ....	3973
6.22.54	ITC Level 1 Thermography Course - attendance, 1 pers. ....	3977
6.22.55	ITC Level 1 Thermography Course – group of 10 pers. ....	3981
6.22.56	ITC Level 2 Thermography Course - additional student to on site class, 1 pers. ....	3985
6.22.57	ITC Level 2 Thermography Course - attendance, 1 pers. ....	3989
6.22.58	ITC Level 2 Thermography Course – group of 10 pers. ....	3993
6.22.59	ITC Short course building thermography - inclusive 10 pers. (2 days) ....	3997
6.22.60	ITC Short course building thermography -attendance 1 pers. (2 days) ....	3999
6.22.61	ITC Short course HVAC and plumbing - attendance 1 pers (2 days) ....	4001
6.22.62	ITC Short course HVAC and plumbing - group up to 10 pers (2 days) ....	4003
6.22.63	ITC Short course Introduction to thermography - inclusive 10 pers. (1 day) ....	4005
6.22.64	ITC Short course Introduction to thermography -attendance 1 pers. (1 day) ....	4009
6.22.65	ITC Software course - attendance 1 pers. (per day) ....	4013
6.22.66	ITC Software course - group up to 10 pers. (per day) ....	4017
6.22.67	ITC Training 1 day - attendance 1 pers. ....	4021
6.22.68	ITC Training 1 day - group up to 10 pers. ....	4025
6.22.69	ITC Training 2 days - attendance 1 pers. ....	4029
6.22.70	ITC Training 2 days - group up to 10 pers. ....	4033
6.22.71	ITC Training 3 days - attendance 1 pers. ....	4037
6.22.72	ITC Training 3 days - group up to 10 pers. ....	4041
6.22.73	ITC Training FLIR Software - attendance 1 pers. (1 day) ....	4045
6.22.74	ITC Training FLIR Software - attendance 1 pers. (2 days) ....	4047
6.22.75	ITC travel time for instructor. ....	4049
6.22.76	Repeat Certification EN473 IT Category 1 ....	4052



## Table of contents

6.22.77	Travel and lodging expenses instructor (Center and South Africa) .....	4054
6.22.78	Travel and lodging expenses instructor (Europe, Balkans, Turkey, Cyprus) .....	4057
6.22.79	Travel and lodging expenses instructor (other) .....	4060
6.22.80	Travel and lodging expenses instructor (Russia/GUS, Middle East, North Africa) .....	4063
6.22.81	Travel and lodging expenses instructor (various) .....	4066
6.23	Accessories for FLIR SC6xx series (handheld; discontinued camera series) .....	4069
6.23.1	IR Window 2 in .....	4070
6.23.2	IR Window 3 in .....	4072
6.23.3	IR Window 4 in .....	4074
6.23.4	SS IR window 2" .....	4076
6.23.5	SS IR window 3" .....	4078
6.23.6	SS IR window 4" .....	4080
6.23.7	Close-up IR lens 0.5X, f = 75 mm (fits 24° IR lens) for ThermoCAM and FLIR 600 series .....	4082
6.23.8	IR lens, f = 76 mm, 12°, incl. case for FLIR 600 series .....	4083
6.23.9	IR lens, f = 131 mm, 7°, incl. case for FLIR 600 series .....	4084
6.23.10	IR lens, f = 19 mm, 45°, incl. case for FLIR 600 series .....	4085
6.23.11	IR lens, f = 38 mm, 24°, incl. case for FLIR 600 series .....	4086
6.23.12	Macro lens, 1x (25 um) with case .....	4087
6.23.13	Protective window (fits 24°) with case .....	4088
6.23.14	High temperature option +2000°C/+3632°F .....	4089
6.23.15	High temperature option +1500°C/+2732°F .....	4090
6.23.16	Battery charger, incl. power supply with multi plugs .....	4091
6.23.17	Power supply, incl. multi plugs .....	4093
6.23.18	Li-Ion Battery pack 7.4V 33Wh .....	4096
6.23.19	Memory card SDHC 4 GB .....	4098
6.23.20	USB cable Std A <-> Mini-B .....	4100
6.23.21	Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft. ....	4103
6.23.22	Video cable, RCA <-> RCA, 2.0 m/6.6 ft. ....	4105
6.23.23	FireWire cable 4/6, 2.0 m/6.6 ft. ....	4106
6.23.24	FireWire cable 6/6, 2.0 m/6.6 ft. ....	4107
6.23.25	Hard transport case for FLIR B/P/SC6xx .....	4108
6.23.26	Headset, 3.5 mm plug .....	4109
6.23.27	Wi-Fi USB micro adapter .....	4110
6.23.28	Bluetooth Headset .....	4111
6.23.29	Bluetooth USB micro adapter .....	4113
6.23.30	FLIR Reporter Professional (license only) .....	4114
6.23.31	FLIR Reporter Professional (license only) .....	4117
6.23.32	FLIR Tools .....	4120
6.23.33	FLIR Tools+ (license only) .....	4126
6.23.34	FLIR IR Camera Player .....	4131
6.23.35	FLIR Tools Mobile (Android Application) .....	4135
6.23.36	FLIR Tools Mobile (iPad/iPhone Application) .....	4138
6.23.37	FLIR Tools (MacOS Application) .....	4140
6.23.38	ThermoVision™ System Developers Kit Ver. 2.6 .....	4142
6.23.39	ThermoVision LabVIEW Digital Toolkit Ver. 3.3 .....	4145
6.23.40	One year extended warranty for SC6x0 series .....	4148

## Table of contents

---

6.23.41	Calibration including General maintenance SC6x0 series (handheld cameras) .....	4149
6.23.42	Certification DIN EN ISO 9712 TT Category 1 .....	4150
6.23.43	DIN EN ISO 9712 TT Category 1 Certification course, excl. Certification, 1 pers. ....	4152
6.23.44	DIN EN ISO 9712 TT Category 1 Certification course, excl. Certification, group up to 10 pers. ....	4154
6.23.45	ITC Advanced General Thermography Course - attendance, 1 pers. ....	4156
6.23.46	ITC Advanced General Thermography Course- group of 10 pers.....	4160
6.23.47	ITC Advanced Thermal applications course - attendance 1 pers. (3 days).....	4164
6.23.48	ITC Advanced Thermal applications course - group up to 10 pers. (3 days) .....	4167
6.23.49	ITC Advanced Thermal measurements (R&D) - attendance 1 pers. (2 days).....	4170
6.23.50	ITC Advanced Thermal Measurements (R&D) - group up to 6 pers. (2 days) .....	4172
6.23.51	ITC Advanced training - group of max. 6 pers, additional day 3 for on-site training, .....	4174
6.23.52	ITC conference fee .....	4176
6.23.53	ITC Customized workshop - per person (per day) .....	4179
6.23.54	ITC Getting Started with Thermography - attendance, 1 pers.....	4182
6.23.55	ITC Getting Started with Thermography (evening or weekend) - attendance, 1 pers. ....	4184
6.23.56	ITC Infrared application and system consultancy (per day) .....	4186
6.23.57	ITC In-house R&D training ATS products - group up to 4 pers. (2 days) .....	4189
6.23.58	ITC In-house training - additional attendance 1 pers. (per day).....	4191
6.23.59	ITC In-house training - group up to 10 pers. (per day) .....	4195
6.23.60	ITC Level 1 Thermography Course - additional student to on site class, 1 pers.....	4199
6.23.61	ITC Level 1 Thermography Course - attendance, 1 pers.....	4203
6.23.62	ITC Level 1 Thermography Course – group of 10 pers.....	4207
6.23.63	ITC Level 2 Thermography Course - additional student to on site class, 1 pers.....	4211
6.23.64	ITC Level 2 Thermography Course - attendance, 1 pers.....	4215
6.23.65	ITC Level 2 Thermography Course – group of 10 pers.....	4219
6.23.66	ITC Practical Course - Solar panel inspection - attendance, 1 pers (2 days).....	4223
6.23.67	ITC Practical Course - Solar panel inspection - group up to 10 pers (2 days) .....	4226
6.23.68	ITC R&D basics for industry users - group up to 6 pers. (2 days).....	4229
6.23.69	ITC Short course electrical thermography - attendance 1 pers. (2 days) .....	4232
6.23.70	ITC Short course electrical thermography - inclusive 10 pers. (2 days) .....	4235
6.23.71	ITC Short course Introduction to thermography - inclusive 10 pers. (1 day) .....	4238

## Table of contents

6.23.72	ITC Short course Introduction to thermography -attendance 1 pers. (1 day) .....	4242
6.23.73	ITC Short courses - group of max. 6 pers, additional day 3 for on-site training.....	4246
6.23.74	ITC Software course - attendance 1 pers. (per day) .....	4248
6.23.75	ITC Software course - group up to 10 pers. (per day) .....	4252
6.23.76	ITC Training 1 day - attendance 1 pers. ....	4256
6.23.77	ITC Training 1 day - group up to 10 pers. ....	4260
6.23.78	ITC Training 2 days - attendance 1 pers. ....	4264
6.23.79	ITC Training 2 days - group up to 10 pers. ....	4268
6.23.80	ITC Training 3 days - attendance 1 pers. ....	4272
6.23.81	ITC Training 3 days - group up to 10 pers. ....	4276
6.23.82	ITC Training FLIR Software - attendance 1 pers. (1 day) .....	4280
6.23.83	ITC Training FLIR Software - attendance 1 pers. (2 days) .....	4282
6.23.84	ITC travel time for instructor.....	4284
6.23.85	Repeat Certification EN473 IT Category 1 .....	4287
6.23.86	Travel and lodging expenses instructor (Center and South Africa) .....	4289
6.23.87	Travel and lodging expenses instructor (Europe, Balcans, Turkey, Cyprus) .....	4292
6.23.88	Travel and lodging expenses instructor (other) .....	4295
6.23.89	Travel and lodging expenses instructor (Russia/GUS, Middle East, North Africa).....	4298
6.23.90	Travel and lodging expenses instructor (various) .....	4301
6.24	Accessories for FLIR E/B series (discontinued camera series) .....	4304
6.24.1	Camera pouch for E Series, InfraCAM/BCAM, FLIR i/bxx .....	4305
6.24.2	ThermaCAM™ PC USB cable, 1.5 m./4.9 ft. ....	4306
6.24.3	ThermaCAM™ PC RS-232 cable, 1.5 m/4.9 ft. ....	4307
6.24.4	Hand strap .....	4308
6.24.5	IR lens, f = 17 mm (25°/18.9°) .....	4309
6.24.6	IR lens, f = 36 mm (12°/9.1°) .....	4310
6.24.7	IR lens, f = 9.2 mm (45°/34.1°) .....	4311
6.24.8	High temp. option +900°C/+1652°F for E series 160x120.....	4312
6.24.9	Sun shield .....	4313
6.24.10	Shield against stray light from LCD, for ThermaCAM™ Scout.....	4314
6.24.11	Battery charger, incl. power supply .....	4315
6.24.12	Battery charger (Japan), incl. power supply .....	4316
6.24.13	IR lens for 160x120, f = 87 mm (5/3.8), incl. case .....	4317
6.24.14	Hard transport case for ThermaCAM™ E Series .....	4318
6.24.15	+1200°C/+2192°F External filter for EX320 ver. with 25° lens.....	4319
6.24.16	IR lens, 15° for EX320/EX300/BX320, incl. case .....	4320
6.24.17	IR lens, 45° for EX320/EX300/BX320, incl. case .....	4321
6.24.18	IR lens, 25° for EX320/EX300/BX320. incl. case .....	4322
6.24.19	High temp. option +1200°C/+2192°F for E300/E320 ULIS ver. ....	4323
6.24.20	IR lens, 23° for E320/E300/B4, incl. case.....	4324
6.24.21	IR lens, 41° for E320/E300/B4, incl. case.....	4325
6.24.22	IR lens, 14° for E320/E300/B4, incl. case.....	4326
6.24.23	Cable mains Europa.....	4327

## Table of contents

6.24.24	Cable mains USA .....	4328
6.24.25	Cable mains UK .....	4329
6.24.26	Power supply .....	4330
6.24.27	ITC conference fee .....	4331
6.24.28	ITC travel time for instructor .....	4334
6.24.29	Travel and lodging expenses instructor (Europe, Balkans, Turkey, Cyprus) .....	4337
6.24.30	Travel and lodging expenses instructor (Russia/GUS, Middle East, North Africa) .....	4340
6.24.31	Travel and lodging expenses instructor (Center and South Africa) .....	4343
6.24.32	Travel and lodging expenses instructor (various) .....	4346
6.24.33	Travel and lodging expenses instructor (other) .....	4349
6.24.34	FLIR Reporter Professional (license only) .....	4352
6.24.35	Battery .....	4355
6.24.36	FLIR Reporter Professional (license only) .....	4356
6.25	Accessories for FLIR P/S series (discontinued camera series) .....	4359
6.25.1	Hard transport case for ThermoCAM™ P/S Series .....	4360
6.25.2	Remote control, incl. 4" LCD .....	4361
6.25.3	FLIR Reporter Professional (license only) .....	4362
6.25.4	FLIR Reporter Professional (license only) .....	4365
6.25.5	ITC Advanced Furnace Application Course - additional student to on site class .....	4368
6.25.6	ITC Advanced Furnace Application Course - attendance, 1 pers. (3 days) .....	4370
6.25.7	ITC Advanced Furnace Applications Course - group up to 6 persons (3 days) .....	4372
6.25.8	IR lens, f = 124 mm (7°/5.75°) P/S Series .....	4374
6.25.9	IR lens, f = 72 mm (12°/10°) .....	4375
6.25.10	IR lens, f = 18 mm (45°/37°) .....	4376
6.25.11	Close-up IR lens, 150 mm (FOV 64 mm/53 mm) .....	4377
6.25.12	Protective window .....	4378
6.25.13	Protective plastic window .....	4379
6.25.14	High temperature option +1500°C/+2732°F .....	4380
6.25.15	High temperature option +2000°C/+3632°F .....	4381
6.25.16	High temperature option +1000°C/+1832°F .....	4382
6.25.17	Battery charger, incl. power supply .....	4383
6.25.18	Power supply .....	4384
6.25.19	Battery P/S series .....	4385
6.25.20	Cable mains Europa .....	4386
6.25.21	Cable mains USA .....	4387
6.25.22	Cable mains UK .....	4388
6.25.23	USB cable, 1.5 m/4.9 ft. ....	4389
6.25.24	RS-232 cable, 1.5 m/4.9 ft. ....	4390
6.25.25	FireWire™ cable 4/4 2 m/6.6 ft. ....	4391
6.25.26	FireWire™ cable 4/6 2 m/6.6 ft. ....	4392
6.25.27	Video cable RCA <-> RCA, 2 m/6.6 ft. ....	4393
6.25.28	S-Video cable, 1.5 m/4.9 ft. ....	4394
6.25.29	Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft. ....	4395
6.25.30	Extension cable for remote control, 5.0 m/16.4 ft. ....	4396
6.25.31	Video lens 12° .....	4397
6.25.32	Headset .....	4398
6.25.33	Camera handle .....	4399
6.25.34	Protective cap for LEMO connector (headset) .....	4400

## Table of contents

6.25.35	Protective cap for LEMO connector (USB/RS-232 and RC) .....	4401
6.25.36	Video lamp for digital camera .....	4402
6.25.37	Hard transport case for ThermoCAM™ P/S Series .....	4403
6.25.38	Remote control, incl. 4" LCD .....	4404
6.25.39	FLIR Reporter Professional (license only) .....	4405
6.25.40	FLIR Reporter Professional (license only) .....	4408
6.25.41	FLIR IR Camera Player .....	4411
6.25.42	IR lens, f = 124 mm (7°/5.75°) P/S Series .....	4415
6.25.43	IR lens, f = 72 mm (12°/10°) .....	4416
6.25.44	IR lens, f = 18 mm (45°/37°) .....	4417
6.25.45	Close-up IR lens, 150 mm (FOV 64 mm/53 mm) .....	4418
6.25.46	Protective window .....	4419
6.25.47	Protective plastic window .....	4420
6.25.48	High temperature option +1500°C/+2732°F .....	4421
6.25.49	High temperature option +2000°C/+3632°F .....	4422
6.25.50	High temperature option +1000°C/+1832°F .....	4423
6.25.51	Battery charger, incl. power supply .....	4424
6.25.52	Power supply .....	4425
6.25.53	Battery P/S series .....	4426
6.25.54	Cable mains Europa .....	4427
6.25.55	Cable mains USA .....	4428
6.25.56	Cable mains UK .....	4429
6.25.57	USB cable, 1.5 m/4.9 ft. ....	4430
6.25.58	RS-232 cable, 1.5 m/4.9 ft. ....	4431
6.25.59	FireWire™ cable 4/4 2 m/6.6 ft. ....	4432
6.25.60	FireWire™ cable 4/6 2 m/6.6 ft. ....	4433
6.25.61	Video cable RCA <-> RCA, 2 m/6.6 ft. ....	4434
6.25.62	Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft. ....	4435
6.25.63	Extension cable for remote control, 5.0 m/16.4 ft. ....	4436
6.25.64	Video lens 12° .....	4437
6.25.65	Headset .....	4438
6.25.66	Camera handle .....	4439
6.25.67	Protective cap for LEMO connector (headset) .....	4440
6.25.68	Protective cap for LEMO connector (USB/RS-232 and RC) .....	4441
6.25.69	Video lamp for digital camera .....	4442
6.26	Accessories for FLIR SC3000 series (discontinued camera series) .....	4443
6.26.1	Hard transport case for ThermoCAM™ SC3000 .....	4444
6.26.2	FLIR Reporter Professional (license only) .....	4445
6.26.3	FLIR Reporter Professional (license only) .....	4448
6.26.4	ITC Advanced General Thermography Course - attendance, 1 pers. ....	4451
6.26.5	ITC Advanced General Thermography Course- group of 10 pers. ....	4455
6.26.6	ITC Customized workshop - per person (per day) .....	4459
6.26.7	ITC Infrared application and system consultancy (per day) .....	4462
6.26.8	ITC In-house training - additional attendance 1 pers. (per day) .....	4465
6.26.9	ITC In-house training - group up to 10 pers. (per day) .....	4469
6.26.10	ITC Level 1 Thermography Course - additional student to on site class, 1 pers. ....	4473

## Table of contents

6.26.11	ITC Level 1 Thermography Course - attendance, 1 pers.....	4477
6.26.12	ITC Level 1 Thermography Course – group of 10 pers.....	4481
6.26.13	ITC Level 2 Thermography Course - additional student to on site class, 1 pers.....	4485
6.26.14	ITC Level 2 Thermography Course - attendance, 1 pers.....	4489
6.26.15	ITC Level 2 Thermography Course – group of 10 pers.....	4493
6.26.16	ITC Software course - attendance 1 pers. (per day) .....	4497
6.26.17	ITC Software course - group up to 10 pers. (per day) .....	4501
6.26.18	IR lens, f = 72 mm (12°/10°).....	4505
6.26.19	IR lens, 2.5° .....	4506
6.26.20	IR lens, 5° .....	4507
6.26.21	IR lens, 60° .....	4508
6.26.22	Close-up IR lens, 34/100 .....	4509
6.26.23	Microscope IR lens, 10/26, and close-up IR lens, 34/100 .....	4510
6.26.24	High temperature option +2000°C/+3632°F .....	4511
6.26.25	PC-Card™ > 100 MB.....	4512
6.26.26	PC-Card™ adapter for CompactFlash™ card.....	4513
6.26.27	High speed option .....	4514
6.26.28	Camera handle .....	4515
6.27	Accessories for FLIR A20 series (discontinued camera series) .....	4516
6.27.1	Ethernet cable, CAT5, crossover, 2.0 m/6.6 ft .....	4517
6.27.2	FireWire™ cable 6/6, 2 m/6.6 ft, with screw locking .....	4518
6.27.3	RS-232 cable, 1.5 m/4.9 ft.....	4519
6.27.4	Video cable, 3.0 m/9.8 ft. ....	4520
6.27.5	Ethernet cable, 2 m/6.6 ft. ....	4521
6.27.6	Ethernet cable, 2 m/6.6 ft, crossed .....	4522
6.27.7	Hard transport case for ThermoVision™ A20 Series .....	4523
6.27.8	FLIR IR Camera Player .....	4524
6.27.9	FLIR ResearchIR Max 4 .....	4528
6.27.10	FLIR ResearchIR Max + HSDR 4.....	4531
6.27.11	IR lens, f = 36 mm (12°/9.1°), without case .....	4534
6.27.12	IR lens, f = 9.2 mm (45°/34.1°), without case .....	4535
6.27.13	IR lens, f = 17 mm (25°/18.9°), without case .....	4536
6.27.14	IR lens, f = 54 mm (8°/6°), with case .....	4537
6.27.15	IR lens, f = 87 mm (5°/3.8°), with case .....	4538
6.27.16	Spring for IR lens, f = 9.2 mm .....	4539
6.27.17	Spring for IR lens, f = 17 mm .....	4540
6.27.18	Motor focus for IR lens, f = 36 mm, 9.2 mm and 17 mm .....	4541
6.27.19	IR lens, f = 54 mm (8°/6°) .....	4542
6.27.20	IR lens, f = 4,5 mm (80°/60°) .....	4543
6.27.21	IR lens, f = 4,5 mm (80°/60°), with case .....	4544
6.27.22	High temp. option +900°C/+1652°F for E series 160x120.....	4545
6.27.23	Power supply .....	4546
6.27.24	Cable mains Europa.....	4547
6.27.25	Cable mains USA .....	4548
6.27.26	Cable mains UK .....	4549

6.28	Accessories for FLIR A40 series (discontinued camera series) .....	4550
6.28.1	Ethernet cable, CAT5, crossover, 2.0 m/6.6 ft .....	4551
6.28.2	FireWire™ cable 6/6, 2 m/6.6 ft, with screw locking .....	4552
6.28.3	RS-232 cable, 1.5 m/4.9 ft.....	4553
6.28.4	Video cable, 3.0 m/9.8 ft. ....	4554
6.28.5	Ethernet cable, 2 m/6.6 ft. ....	4555
6.28.6	Ethernet cable, 2 m/6.6 ft, crossed .....	4556
6.28.7	Hard transport case for ThermoVision™ A40 Series.....	4557
6.28.8	FLIR IR Camera Player .....	4558
6.28.9	FLIR ResearchIR Max 4 .....	4562
6.28.10	FLIR ResearchIR Max + HSDR 4.....	4565
6.28.11	ITC Advanced General Thermography Course - attendance, 1 pers. ....	4568
6.28.12	ITC Advanced General Thermography Course- group of 10 pers.....	4572
6.28.13	ITC Customized workshop - per person (per day) .....	4576
6.28.14	ITC In-house training - additional attendance 1 pers. (per day).....	4579
6.28.15	ITC In-house training - group up to 10 pers. (per day) .....	4583
6.28.16	ITC Level 1 Thermography Course - additional student to on site class, 1 pers.....	4587
6.28.17	ITC Level 1 Thermography Course - attendance, 1 pers.....	4591
6.28.18	ITC Level 1 Thermography Course – group of 10 pers.....	4595
6.28.19	ITC Level 2 Thermography Course - additional student to on site class, 1 pers.....	4599
6.28.20	ITC Level 2 Thermography Course - attendance, 1 pers.....	4603
6.28.21	ITC Level 2 Thermography Course – group of 10 pers.....	4607
6.28.22	ITC R&D basics for industry users - group up to 6 pers. (2 days).....	4611
6.28.23	ITC Short course Fever Screening - additional student to on site class (2 days) .....	4614
6.28.24	ITC Short course Fever Screening - attendance 1 pers. (2 days).....	4617
6.28.25	ITC Short course Fever Screening - inclusive 10 pers. (2 days) .....	4620
6.28.26	ITC Short course Introduction to thermography - inclusive 10 pers. (1 day) .....	4623
6.28.27	ITC Short course Introduction to thermography -attendance 1 pers. (1 day) .....	4627
6.28.28	ITC Software course - attendance 1 pers. (per day) .....	4631
6.28.29	ITC Software course - group up to 10 pers. (per day) .....	4635
6.28.30	IR lens, f = 72 mm (12°/10°).....	4639
6.28.31	IR lens, f = 18 mm (45°/37°).....	4640
6.28.32	Close-up IR lens, 150 mm (FOV 64 mm/53 mm) .....	4641
6.28.33	Protective window .....	4642
6.28.34	Protective plastic window .....	4643
6.28.35	IR lens, f = 124 mm (7°) .....	4644
6.28.36	High temperature option +1500°C/+2732°F .....	4645
6.28.37	High temperature option +2000°C/+3632°F .....	4646

	6.28.38	High temperature option +1000°C/+1832°F .....	4647
	6.28.39	Power supply .....	4648
	6.28.40	Cable mains Europa .....	4649
	6.28.41	Cable mains USA .....	4650
	6.28.42	Cable mains UK .....	4651
<b>7</b>	<b>Training</b> .....		<b>4652</b>
	7.1	Training .....	4653
	7.1.1	Certification DIN EN ISO 9712 TT Category 1 .....	4654
	7.1.2	DIN EN ISO 9712 TT Category 1 Certification course, excl. Certification, 1 pers. ....	4656
	7.1.3	DIN EN ISO 9712 TT Category 1 Certification course, excl. Certification, group up to 10 pers. ....	4658
	7.1.4	ITC Advanced Building – attendance 1 pers .....	4660
	7.1.5	ITC Advanced Building – group of 10 pers. ....	4662
	7.1.6	ITC Advanced Furnace Application Course - additional student to on site class.....	4664
	7.1.7	ITC Advanced Furnace Application Course - attendance, 1 pers. (3 days) .....	4666
	7.1.8	ITC Advanced Furnace Applications Course - group up to 10 pers. (3 days) .....	4668
	7.1.9	ITC Advanced Furnace Applications Course - group up to 6 persons (3 days) .....	4669
	7.1.10	ITC Advanced Gas Detection Course - additional student to on site class, 1 pers. ....	4671
	7.1.11	ITC Advanced Gas Detection Course - attendance, 1 pers.....	4674
	7.1.12	ITC Advanced Gas Detection Course – group of 10 pers.....	4677
	7.1.13	ITC Advanced Gas Detection Course - group of up to 6 pers. (3 days) .....	4680
	7.1.14	ITC Advanced General Thermography Course - attendance, 1 pers. ....	4683
	7.1.15	ITC Advanced General Thermography Course- group of 10 pers.....	4687
	7.1.16	ITC Advanced Thermal applications course - attendance 1 pers. (3 days).....	4691
	7.1.17	ITC Advanced Thermal applications course - group up to 10 pers. (3 days) .....	4694
	7.1.18	ITC Advanced Thermal measurements (R&D) - attendance 1 pers. (2 days).....	4697
	7.1.19	ITC Advanced Thermal Measurements (R&D) - group up to 6 pers. (2 days) .....	4699
	7.1.20	ITC Advanced training - group of max. 6 pers, additional day 3 for on-site training, .....	4701
	7.1.21	ITC Advanced training - group of max. 6 pers, additional day 4 for on-site training .....	4703
	7.1.22	ITC Automated safety systems training - attendance 1 pers (3 days) .....	4705
	7.1.23	ITC Automated safety systems training - group of up to 10 pers (3 days) .....	4707
	7.1.24	ITC conference fee .....	4709
	7.1.25	ITC Customized workshop - per person (per day) .....	4712
	7.1.26	ITC Getting Started with Thermography - attendance, 1 pers.....	4715
	7.1.27	ITC Getting Started with Thermography (evening or weekend) - attendance, 1 pers. ....	4717
	7.1.28	ITC Infrared application and system consultancy (per day) .....	4719



## Table of contents

---

7.1.29	ITC In-house R&D training ATS products - group up to 4 pers. (2 days) .....	4722
7.1.30	ITC In-house training - additional attendance 1 pers. (per day).....	4724
7.1.31	ITC In-house training - group up to 10 pers. (per day) .....	4728
7.1.32	ITC Level 1 Thermography Course - additional student to on site class, 1 pers.....	4732
7.1.33	ITC Level 1 Thermography Course - attendance, 1 pers.....	4736
7.1.34	ITC Level 1 Thermography Course – group of 10 pers.....	4740
7.1.35	ITC Level 2 Thermography Course - additional student to on site class, 1 pers.....	4744
7.1.36	ITC Level 2 Thermography Course - attendance, 1 pers.....	4748
7.1.37	ITC Level 2 Thermography Course – group of 10 pers.....	4752
7.1.38	ITC Practical Course - Solar panel inspection - attendance, 1 pers (2 days).....	4756
7.1.39	ITC Practical Course - Solar panel inspection - group up to 10 pers (2 days) .....	4759
7.1.40	ITC R&D basics for industry users - group up to 6 pers. (2 days).....	4762
7.1.41	ITC Short course building thermography - inclusive 10 pers. (2 days) .....	4765
7.1.42	ITC Short course building thermography -attendance 1 pers. (2 days) .....	4767
7.1.43	ITC Short course electrical thermography - attendance 1 pers. (2 days) .....	4769
7.1.44	ITC Short course electrical thermography - inclusive 10 pers. (2 days) .....	4772
7.1.45	ITC Short course Fever Screening - additional student to on site class (2 days) .....	4775
7.1.46	ITC Short course Fever Screening - attendance 1 pers. (2 days).....	4778
7.1.47	ITC Short course Fever Screening - inclusive 10 pers. (2 days) .....	4781
7.1.48	ITC Short course HVAC and plumbing - attendance 1 pers (2 days) .....	4784
7.1.49	ITC Short course HVAC and plumbing - group up to 10 pers (2 days) .....	4786
7.1.50	ITC Short course Introduction to thermography - inclusive 10 pers. (1 day) .....	4788
7.1.51	ITC Short course Introduction to thermography -attendance 1 pers. (1 day) .....	4792
7.1.52	ITC Short courses - group of max. 6 pers, additional day 3 for on-site training.....	4796
7.1.53	ITC Software course - attendance 1 pers. (per day) .....	4798
7.1.54	ITC Software course - group up to 10 pers. (per day) .....	4802
7.1.55	ITC Training 1 day - attendance 1 pers. ....	4806
7.1.56	ITC Training 1 day - group up to 10 pers. ....	4810
7.1.57	ITC Training 2 days - attendance 1 pers. ....	4814
7.1.58	ITC Training 2 days - group up to 10 pers. ....	4818
7.1.59	ITC Training 3 days - attendance 1 pers. ....	4822
7.1.60	ITC Training 3 days - group up to 10 pers. ....	4826
7.1.61	ITC Training FLIR Software - attendance 1 pers. (1 day) .....	4830

## Table of contents

---

	7.1.62	ITC Training FLIR Software - attendance 1 pers. (2 days) .....	4832
	7.1.63	ITC travel time for instructor .....	4834
	7.1.64	Repeat Certification EN473 IT Category 1 .....	4837
	7.1.65	Travel and lodging expenses instructor (Center and South Africa) .....	4839
	7.1.66	Travel and lodging expenses instructor (Europe, Balkans, Turkey, Cyprus) .....	4842
	7.1.67	Travel and lodging expenses instructor (other) .....	4845
	7.1.68	Travel and lodging expenses instructor (Russia/GUS, Middle East, North Africa) .....	4848
	7.1.69	Travel and lodging expenses instructor (various) .....	4851
<b>8</b>	<b>About ITC .....</b>	<b>4854</b>	
	8.1	Welcome to ITC, the leading source of knowledge within infrared science and its applications .....	4855
	8.2	Level 1 to 3 thermography courses .....	4855
	8.3	Advanced application courses .....	4855
	8.4	Short courses .....	4855
	8.5	E-learning .....	4855
	8.6	In-house classes .....	4855
	8.7	Software courses .....	4856
	8.8	System training .....	4856
	8.9	Workshops and conferences .....	4856
	8.10	Contact details .....	4856
<b>9</b>	<b>Service and support .....</b>	<b>4857</b>	
	9.1	FLIR Systems' qualifications .....	4858
	9.2	FLIR Systems service .....	4858
	9.3	Service and support .....	4858
	9.4	Documentation downloads .....	4859
	9.5	Software downloads .....	4859
	9.6	Downloads of datasheets and product catalogs .....	4859
	<b>Index .....</b>	<b>4860</b>	

## 1.1 Disclaimers

### 1.1.1 Legal disclaimer

All products manufactured by FLIR Systems are warranted against defective materials and workmanship for a period of one (1) year from the delivery date of the original purchase, provided such products have been under normal storage, use and service, and in accordance with FLIR Systems instruction.

Uncooled handheld infrared cameras manufactured by FLIR Systems are warranted against defective materials and workmanship for a period of two (2) years from the delivery date of the original purchase, provided such products have been under normal storage, use and service, and in accordance with FLIR Systems instruction, and provided that the camera has been registered within 60 days of original purchase.

Detectors for uncooled handheld infrared cameras manufactured by FLIR Systems are warranted against defective materials and workmanship for a period of ten (10) years from the delivery date of the original purchase, provided such products have been under normal storage, use and service, and in accordance with FLIR Systems instruction, and provided that the camera has been registered within 60 days of original purchase.

Products which are not manufactured by FLIR Systems but included in systems delivered by FLIR Systems to the original purchaser, carry the warranty, if any, of the particular supplier only. FLIR Systems has no responsibility whatsoever for such products.

The warranty extends only to the original purchaser and is not transferable. It is not applicable to any product which has been subjected to misuse, neglect, accident or abnormal conditions of operation. Expendable parts are excluded from the warranty.

In the case of a defect in a product covered by this warranty the product must not be further used in order to prevent additional damage. The purchaser shall promptly report any defect to FLIR Systems or this warranty will not apply.

FLIR Systems will, at its option, repair or replace any such defective product free of charge if, upon inspection, it proves to be defective in material or workmanship and provided that it is returned to FLIR Systems within the said one-year period.

FLIR Systems has no other obligation or liability for defects than those set forth above.

No other warranty is expressed or implied. FLIR Systems specifically disclaims the implied warranties of merchantability and fitness for a particular purpose.

FLIR Systems shall not be liable for any direct, indirect, special, incidental or consequential loss or damage, whether based on contract, tort or any other legal theory.

This warranty shall be governed by Swedish law.

Any dispute, controversy or claim arising out of or in connection with this warranty, shall be finally settled by arbitration in accordance with the Rules of the Arbitration Institute of the Stockholm Chamber of Commerce. The place of arbitration shall be Stockholm. The language to be used in the arbitral proceedings shall be English.

### 1.1.2 Usage statistics

FLIR Systems reserves the right to gather anonymous usage statistics to help maintain and improve the quality of our software and services.

### 1.1.3 Changes to registry

The registry entry

HKEY\_LOCAL\_MACHINE\SYSTEM\CurrentControlSet\Control\Lsa\LmCompatibilityLevel will be automatically changed to level 2 if the FLIR Camera Monitor service detects a FLIR camera connected to the computer with a USB cable. The modification will only be executed if the camera device implements a remote network service that supports network logons.

### 1.1.4 U.S. Government Regulations

This product may be subject to U.S. Export Regulations. Please send any inquiries to [exportquestions@flir.com](mailto:exportquestions@flir.com).

### 1.1.5 Copyright

© 2015, FLIR Systems, Inc. All rights reserved worldwide. No parts of the software including source code may be reproduced, transmitted, transcribed or translated into any language or computer language in any form or by any means, electronic, magnetic, optical, manual or otherwise, without the prior written permission of FLIR Systems.

The documentation must not, in whole or part, be copied, photocopied, reproduced, translated or transmitted to any electronic medium or machine readable form without prior consent, in writing, from FLIR Systems.

Names and marks appearing on the products herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### 1.1.6 Quality assurance

The Quality Management System under which these products are developed and manufactured has been certified in accordance with the ISO 9001 standard.

FLIR Systems is committed to a policy of continuous development; therefore we reserve the right to make changes and improvements on any of the products without prior notice.

### 1.1.7 Patents

One or several of the following patents and/or design patents may apply to the products and/or features. Additional pending patents and/or pending design patents may also apply.

000279476-0001; 000439161; 000499579-0001; 000653423; 000726344; 000859020; 001106306-0001; 001707738; 001707746; 001707787; 001776519; 001954074; 002021543; 002058180; 002249953; 002531178; 0600574-8; 1144833; 1182246; 1182620; 1285345; 1299699; 1325808; 1336775; 1391114; 1402918; 1404291; 1411581; 1415075; 1421497; 1458284; 1678485; 1732314; 2106017; 2107799; 2381417; 3006596; 3006597; 466540; 483782; 484155; 4889913; 5177595; 60122153.2; 602004011681.5-08; 6707044; 68657; 7034300; 7110035; 7154093; 7157705; 7237946; 7312822; 7332716; 7336823; 7544944; 7667198; 7809258 B2; 7826736; 8,153,971; 8,823,803; 8,853,631; 8018649 B2; 8212210 B2; 8289372; 8354639 B2; 8384783; 8520970; 8565547; 8595689; 8599262; 8654239; 8680468; 8803093; D540838; D549758; D579475; D584755; D599,392; D615,113; D664,580; D664,581; D665,004; D665,440; D677298; D710,424 S; D718801; DI6702302-9; DI6903617-9; DI7002221-6; DI7002891-5; DI7002892-3; DI7005799-0; DM/057692; DM/061609; EP 2115696 B1; EP2315433; SE 0700240-5; US 8340414 B2; ZL 201330267619.5; ZL01823221.3; ZL01823226.4; ZL02331553.9; ZL02331554.7; ZL200480034894.0; ZL200530120994.2; ZL200610088759.5; ZL200630130114.4; ZL200730151141.4; ZL200730339504.7; ZL200820105768.8; ZL200830128581.2; ZL200880105236.4; ZL200880105769.2; ZL200930190061.9; ZL201030176127.1; ZL201030176130.3; ZL201030176157.2; ZL201030595931.3; ZL201130442354.9; ZL201230471744.3; ZL201230620731.8.

### 1.1.8 EULA Terms

- You have acquired a device ("INFRARED CAMERA") that includes software licensed by FLIR Systems AB from Microsoft Licensing, GP or its affiliates ("MS"). Those installed software products of MS origin, as well as associated media, printed materials, and "online" or electronic documentation ("SOFTWARE") are protected by international intellectual property laws and treaties. The SOFTWARE is licensed, not sold. All rights reserved.
- IF YOU DO NOT AGREE TO THIS END USER LICENSE AGREEMENT ("EULA"), DO NOT USE THE DEVICE OR COPY THE SOFTWARE. INSTEAD, PROMPTLY CONTACT FLIR Systems AB FOR INSTRUCTIONS ON RETURN OF THE UNUSED

DEVICE(S) FOR A REFUND. **ANY USE OF THE SOFTWARE, INCLUDING BUT NOT LIMITED TO USE ON THE DEVICE, WILL CONSTITUTE YOUR AGREEMENT TO THIS EULA (OR RATIFICATION OF ANY PREVIOUS CONSENT).**

- **GRANT OF SOFTWARE LICENSE.** This EULA grants you the following license:
  - You may use the SOFTWARE only on the DEVICE.
  - **NOT FAULT TOLERANT.** THE SOFTWARE IS NOT FAULT TOLERANT. FLIR Systems AB HAS INDEPENDENTLY DETERMINED HOW TO USE THE SOFTWARE IN THE DEVICE, AND MS HAS RELIED UPON FLIR Systems AB TO CONDUCT SUFFICIENT TESTING TO DETERMINE THAT THE SOFTWARE IS SUITABLE FOR SUCH USE.
  - **NO WARRANTIES FOR THE SOFTWARE.** THE SOFTWARE is provided "AS IS" and with all faults. THE ENTIRE RISK AS TO SATISFACTORY QUALITY, PERFORMANCE, ACCURACY, AND EFFORT (INCLUDING LACK OF NEGLIGENCE) IS WITH YOU. ALSO, THERE IS NO WARRANTY AGAINST INTERFERENCE WITH YOUR ENJOYMENT OF THE SOFTWARE OR AGAINST INFRINGEMENT. **IF YOU HAVE RECEIVED ANY WARRANTIES REGARDING THE DEVICE OR THE SOFTWARE, THOSE WARRANTIES DO NOT ORIGINATE FROM, AND ARE NOT BINDING ON, MS.**
  - **No Liability for Certain Damages.** **EXCEPT AS PROHIBITED BY LAW, MS SHALL HAVE NO LIABILITY FOR ANY INDIRECT, SPECIAL, CONSEQUENTIAL OR INCIDENTAL DAMAGES ARISING FROM OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THE SOFTWARE. THIS LIMITATION SHALL APPLY EVEN IF ANY REMEDY FAILS OF ITS ESSENTIAL PURPOSE. IN NO EVENT SHALL MS BE LIABLE FOR ANY AMOUNT IN EXCESS OF U.S. TWO HUNDRED FIFTY DOLLARS (U.S.\$250.00).**
  - **Limitations on Reverse Engineering, Decompilation, and Disassembly.** You may not reverse engineer, decompile, or disassemble the SOFTWARE, except and only to the extent that such activity is expressly permitted by applicable law notwithstanding this limitation.
  - **SOFTWARE TRANSFER ALLOWED BUT WITH RESTRICTIONS.** You may permanently transfer rights under this EULA only as part of a permanent sale or transfer of the Device, and only if the recipient agrees to this EULA. If the SOFTWARE is an upgrade, any transfer must also include all prior versions of the SOFTWARE.
  - **EXPORT RESTRICTIONS.** You acknowledge that SOFTWARE is subject to U.S. export jurisdiction. You agree to comply with all applicable international and national laws that apply to the SOFTWARE, including the U.S. Export Administration Regulations, as well as end-user, end-use and destination restrictions issued by U.S. and other governments. For additional information see <http://www.microsoft.com/exporting/>.

### 1.1.9 EULA Terms

Qt4 Core and Qt4 GUI, Copyright ©2013 Nokia Corporation and FLIR Systems AB. This Qt library is a free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version. This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License, <http://www.gnu.org/licenses/lgpl-2.1.html>. The source code for the libraries Qt4 Core and Qt4 GUI may be requested from FLIR Systems AB.

## 1.2 Safety information



### DANGER

**Applicability:** FLIR A3xx pt & G300 pt.

Do not install the unit in lightning weather. A lightning strike can hit the unit and cause injury or death.

**DANGER**

**Applicability:** FLIR A3xx pt & G300 pt.

Be careful when you install or do an inspection of the unit at high heights. The unit can move suddenly and this can cause you to fall. This can cause injury or death.

**DANGER**

**Applicability:** FLIR A3xx pt & G300 pt.

Make sure that you use the industry standard safety procedures when you install or do an inspection of the unit at high heights. If you do not use the industry standard safety procedures, this can cause you to fall. This can cause injury or death.

**WARNING**

**Applicability:** Class A digital devices.

This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instruction manual, may cause interference to radio communications. It has been tested and found to comply with the limits for a Class A computing device pursuant to Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference in which case the user at his own expense will be required to take whatever measures may be required to correct the interference.

**WARNING**

**Applicability:** Class B digital devices.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**WARNING**

**Applicability:** Digital devices subject to 15.19/RSS-210.

**NOTICE:** This device complies with Part 15 of the FCC Rules and with RSS-210 of Industry Canada. Operation is subject to the following two conditions:

1. this device may not cause harmful interference, and
2. this device must accept any interference received, including interference that may cause undesired operation.

**WARNING**

**Applicability:** Digital devices subject to 15.21.

**NOTICE:** Changes or modifications made to this equipment not expressly approved by FLIR Systems may void the FCC authorization to operate this equipment.

**WARNING**

**Applicability:** Digital devices subject to 2.1091/2.1093/OET Bulletin 65.

**Radiofrequency radiation exposure Information:** The radiated output power of the device is below the FCC/IC radio frequency exposure limits. Nevertheless, the device shall be used in such a manner that the potential for human contact during normal operation is minimized.

**WARNING**

**Applicability:** Cameras with one or more laser pointers.

Do not look directly into the laser beam. The laser beam can cause eye irritation.

**WARNING**

**Applicability:** Cameras with one or more batteries.

Do not disassemble or do a modification to the battery. The battery contains safety and protection devices which, if damage occurs, can cause the battery to become hot, or cause an explosion or an ignition.

**WARNING**

**Applicability:** Cameras with one or more batteries.

If there is a leak from the battery and you get the fluid in your eyes, do not rub your eyes. Flush well with water and immediately get medical care. The battery fluid can cause injury to your eyes if you do not do this.

**WARNING**

**Applicability:** Cameras with one or more batteries.

Do not continue to charge the battery if it does not become charged in the specified charging time. If you continue to charge the battery, it can become hot and cause an explosion or ignition. Injury to persons can occur.

**WARNING**

**Applicability:** Cameras with one or more batteries.

Only use the correct equipment to remove the electrical power from the battery. If you do not use the correct equipment, you can decrease the performance or the life cycle of the battery. If you do not use the correct equipment, an incorrect flow of current to the battery can occur. This can cause the battery to become hot, or cause an explosion. Injury to persons can occur.

**WARNING**

Make sure that you read all applicable MSDS (Material Safety Data Sheets) and warning labels on containers before you use a liquid. The liquids can be dangerous. Injury to persons can occur.

**WARNING**

**Applicability:** FLIR A3xx pt & G300 pt.

Be careful when you lift the unit when it is not energized. This can cause the parts of the unit to move freely and cause injury.

**WARNING**

**Applicability:** FLIR A3xx pt & G300 pt.

Do not go near the unit when it is energized. The unit can move suddenly and cause injury.

**WARNING**

**Applicability:** FLIR A3xx pt & G300 pt.

Do not go near the unit during the startup. The unit can move suddenly and cause injury.

**WARNING**

**Applicability:** FLIR A3xx pt & G300 pt.

A minimum of two persons are necessary to lift the unit. The unit can cause injury when the center of gravity moves.

**WARNING**

**Applicability:** FLIR A3xx pt & G300 pt.

Make sure that you install the unit safely. If you do not install it safely, the unit can fall down and cause injury.

**WARNING**

**Applicability:** FLIR A3xx pt & G300 pt.

If the IR or the TV window breaks, do not touch the broken pieces. The pieces can cause injury.

**WARNING**

**Applicability:** FLIR A3xx pt & G300 pt.

Be careful when you touch the unit. Some parts can be sharp and cause injury.

**WARNING**

**Applicability:** FLIR Ax5.

Do not use screws that are too long. If you use screws that are too long, damage to the camera will occur. The maximum depth of the M3 holes is 4 mm (0.15 in.).

**CAUTION**

Do not point the infrared camera (with or without the lens cover) at strong energy sources, for example, devices that cause laser radiation, or the sun. This can have an unwanted effect on the accuracy of the camera. It can also cause damage to the detector in the camera.

**CAUTION**

Do not use the camera in temperatures more than +50°C (+122°F), unless other information is specified in the user documentation or technical data. High temperatures can cause damage to the camera.

**CAUTION**

**Applicability:** Cameras with one or more laser pointers.

To prevent damage, put the protective cap on the laser pointer when you do not operate the laser pointer. Damage to the laser pointer can occur if you do not do this.

**CAUTION**

**Applicability:** Cameras with one or more batteries.

Do not attach the batteries directly to a car's cigarette lighter socket, unless FLIR Systems supplies a specific adapter to connect the batteries to a cigarette lighter socket. Damage to the batteries can occur.

**CAUTION**

**Applicability:** Cameras with one or more batteries.

Do not connect the positive terminal and the negative terminal of the battery to each other with a metal object (such as wire). Damage to the batteries can occur.

**CAUTION**

**Applicability:** Cameras with one or more batteries.

Do not get water or salt water on the battery, or permit the battery to become wet. Damage to the batteries can occur.



**CAUTION**

**Applicability:** Cameras with one or more batteries.

Do not make holes in the battery with objects. Damage to the battery can occur.

**CAUTION**

**Applicability:** Cameras with one or more batteries.

Do not hit the battery with a hammer. Damage to the battery can occur.

**CAUTION**

**Applicability:** Cameras with one or more batteries.

Do not put your foot on the battery, hit it or cause shocks to it. Damage to the battery can occur.

**CAUTION**

**Applicability:** Cameras with one or more batteries.

Do not put the batteries in or near a fire, or into direct sunlight. When the battery becomes hot, the built-in safety equipment becomes energized and can stop the battery charging procedure. If the battery becomes hot, damage can occur to the safety equipment and this can cause more heat, damage or ignition of the battery.

**CAUTION**

**Applicability:** Cameras with one or more batteries.

Do not put the battery on a fire or increase the temperature of the battery with heat. Damage to the battery and injury to persons can occur.

**CAUTION**

**Applicability:** Cameras with one or more batteries.

Do not put the battery on or near fires, stoves, or other high-temperature locations. Damage to the battery and injury to persons can occur.

**CAUTION**

**Applicability:** Cameras with one or more batteries.

Do not solder directly onto the battery. Damage to the battery can occur.

**CAUTION**

**Applicability:** Cameras with one or more batteries.

Do not use the battery if, when you use, charge, or put the battery in storage, there is an unusual smell from the battery, the battery feels hot, changes color, changes shape, or is in an unusual condition. Speak with your sales office if one or more of these problems occurs. Damage to the battery and injury to persons can occur.

**CAUTION**

**Applicability:** Cameras with one or more batteries.

Only use a specified battery charger when you charge the battery. Damage to the battery can occur if you do not do this.

**CAUTION**

**Applicability:** Cameras with one or more batteries.

Only use a specified battery for the camera. Damage to the camera and the battery can occur if you do not do this.

**CAUTION**

**Applicability:** Cameras with one or more batteries.

The temperature range through which you can charge the battery is  $\pm 0^{\circ}\text{C}$  to  $+45^{\circ}\text{C}$  ( $+32^{\circ}\text{F}$  to  $+113^{\circ}\text{F}$ ), unless other information is specified in the user documentation or technical data. If you charge the battery at temperatures out of this range, it can cause the battery to become hot or to break. It can also decrease the performance or the life cycle of the battery.

**CAUTION**

**Applicability:** Cameras with one or more batteries.

The temperature range through which you can remove the electrical power from the battery is  $-15^{\circ}\text{C}$  to  $+50^{\circ}\text{C}$  ( $+5^{\circ}\text{F}$  to  $+122^{\circ}\text{F}$ ), unless other information is specified in the user documentation or technical data. If you operate the battery out of this temperature range, it can decrease the performance or the life cycle of the battery.

**CAUTION**

**Applicability:** Cameras with one or more batteries.

When the battery is worn, apply insulation to the terminals with adhesive tape or equivalent materials before you discard it. Damage to the battery and injury to persons can occur if you do not do this.

**CAUTION**

**Applicability:** Cameras with one or more batteries.

Remove any water or moisture on the battery before you install it. Damage to the battery can occur if you do not do this.

**CAUTION**

Do not apply solvents or equivalent liquids to the camera, the cables, or other items. Damage to the battery and injury to persons can occur.

**CAUTION**

Be careful when you clean the infrared lens. The lens has an anti-reflective coating which is easily damaged. Damage to the infrared lens can occur.

**CAUTION**

Do not use too much force to clean the infrared lens. This can cause damage to the anti-reflective coating.

**CAUTION**

**Applicability:** Cameras with a heatshield.

When you operate the camera in high-temperature conditions, you must install a heatshield on the camera. If you use the camera in high-temperature conditions without a heatshield, damage to the camera can occur.

**CAUTION**

**Applicability:** Cameras with an automatic shutter that can be disabled.

Do not disable the automatic shutter in the camera for a long time period (a maximum of 30 minutes is typical). If you disable the shutter for a longer time period, damage to the detector can occur.

**NOTE**

The encapsulation rating is only applicable when all the openings on the camera are sealed with their correct covers, hatches, or caps. This includes the compartments for data storage, batteries, and connectors.

**CAUTION****Applicability:** FLIR GF309.

The exceptionally wide temperature range of the FLIR GF309 infrared camera is designed for performing highly accurate electrical and mechanical inspections and can also “see through flames” for inspecting gas-fired furnaces, chemical heaters and coal-fired boilers. IN ORDER TO DERIVE ACCURATE TEMPERATURE MEASUREMENTS IN THESE ENVIRONMENTS THE FLIR GF309 OPERATOR MUST HAVE A STRONG UNDERSTANDING OF RADIOMETRIC FUNDAMENTALS AS WELL AS THE PRODUCTS AND CONDITIONS OF COMBUSTION THAT IMPACT REMOTE TEMPERATURE MEASUREMENT. The Infrared Training Center (ITC) offers a wide range of world class infrared training for thermography professionals including FLIR GF309 operators. For more information about obtaining the training and certification you require, contact your FLIR Systems sales representative or ITC at <http://www.infraredtraining.com>.

**CAUTION****Applicability:** Cameras where you can remove the lens and expose the infrared detector.

Do not use the pressurized air from the pneumatic air systems in a workshop when you remove dust from the detector. The air contains oil mist to lubricate the pneumatic tools and the pressure is too high. Damage to the detector can occur.

**CAUTION****Applicability:** Cameras with a viewfinder.

Make sure that the beams from the intensive energy sources do not go into the viewfinder. The beams can cause damage to the camera. This includes the devices that emit laser radiation, or the sun.

**CAUTION**

Do not change the standard fire-fighting procedures when you use a FLIR K series camera. The FLIR K series camera is not a replacement technology.

**CAUTION**

Do not use the FLIR K series camera without the correct training. If the persons that operate the camera do not have the correct training, an incorrect analysis of the infrared images can occur. Thus, incorrect decisions during the firefighting can be made.

The training must include:

- How a thermal camera operates and its limits
- How to interpret an image
- How to work safely with the camera.

**1.3 Notice to user****1.3.1 User-to-user forums**

Exchange ideas, problems, and infrared solutions with fellow thermographers around the world in our user-to-user forums. To go to the forums, visit:

<http://www.infraredtraining.com/community/boards/>

**1.3.2 Calibration**

We recommend that you send in the camera for calibration once a year. Contact your local sales office for instructions on where to send the camera.

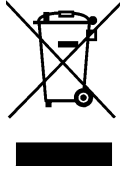
**1.3.3 Accuracy**

For very accurate results, we recommend that you wait 5 minutes after you have started the camera before measuring a temperature.

For cameras where the detector is cooled by a mechanical cooler, this time period excludes the time it takes to cool down the detector.

---

#### 1.3.4 Disposal of electronic waste



As with most electronic products, this equipment must be disposed of in an environmentally friendly way, and in accordance with existing regulations for electronic waste.

Please contact your FLIR Systems representative for more details.

#### 1.3.5 Training

To read about infrared training, visit:

- <http://www.infraredtraining.com>
- <http://www.irtraining.com>
- <http://www.irtraining.eu>

#### 1.3.6 Documentation updates

Our manuals are updated several times per year, and we also issue product-critical notifications of changes on a regular basis.

To access the latest manuals and notifications, go to the Download tab at:

<http://support.flir.com>

It only takes a few minutes to register online. In the download area you will also find the latest releases of manuals for our other products, as well as manuals for our historical and obsolete products.

#### 1.3.7 Important note about this manual

FLIR Systems issues generic manuals that cover several cameras within a model line.

This means that this manual may contain descriptions and explanations that do not apply to your particular camera model.

#### 1.3.8 Note about authoritative versions

The authoritative version of this publication is English. In the event of divergences due to translation errors, the English text has precedence.

Any late changes are first implemented in English.

#### 1.3.9 Software updates


FLIR Systems regularly issues software updates and you can update the software using this update service. Depending on your software, this update service is located at one or both of the following locations:


- *Start > FLIR Systems > [Software] > Check for updates.*
- *Help > Check for updates.*


#### 1.3.10 Additional license information

For each purchased software license, the software may be installed, activated, and used on two devices, e.g., one laptop computer for on-site data acquisition, and one desktop computer for analysis in the office.

1.4 Laser

 **NOTE**

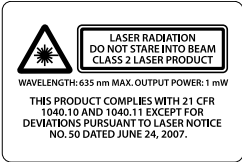
The symbol  is displayed on the screen when the laser pointer is on.

 **NOTE**

The laser pointer may not be enabled in all markets.

1.4.1 Laser warning label

A laser warning label with the following information is attached to the camera:



1.4.2 Laser rules and regulations

Wavelength: 635 nm. Maximum output power: 1 mW.

This product complies with 21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007.

FLIR Systems was established in 1978 to pioneer the development of high-performance infrared imaging systems, and is the world leader in the design, manufacture, and marketing of thermal imaging systems for a wide variety of commercial, industrial, and government applications. Today, FLIR Systems embraces five major companies with outstanding achievements in infrared technology since 1958—the Swedish AGEMA Infrared Systems (formerly AGA Infrared Systems), the three United States companies Indigo Systems, FSI, and Inframetrics, and the French company Cedip.

Since 2007, FLIR Systems has acquired several companies with world-leading expertise in sensor technologies:

- Extech Instruments (2007)
- Ifara Tecnologías (2008)
- Salvador Imaging (2009)
- OmniTech Partners (2009)
- Directed Perception (2009)
- Raymarine (2010)
- ICx Technologies (2010)
- TackTick Marine Digital Instruments (2011)
- Aeris Photonics (2011)
- Lorex Technology (2012)
- Traficon (2012)
- MARSS (2013)
- DigitalOptics micro-optics business (2013)

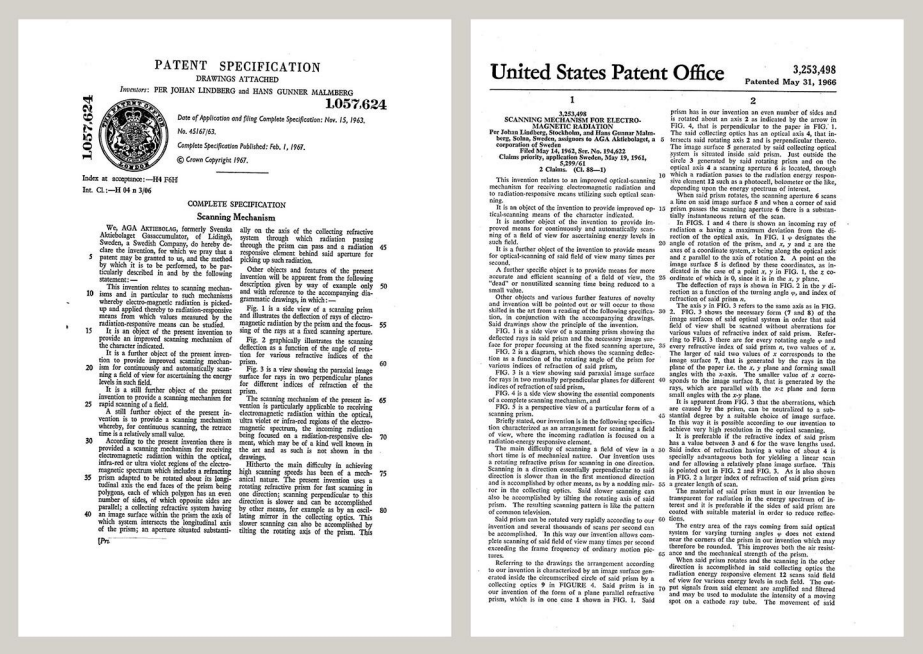


Figure 2.1 Patent documents from the early 1960s

The company has sold more than 350,000 infrared cameras worldwide for applications such as predictive maintenance, R & D, non-destructive testing, process control and automation, and machine vision, among many others.

FLIR Systems has three manufacturing plants in the United States (Portland, OR, Boston, MA, Santa Barbara, CA) and one in Sweden (Stockholm). Since 2007 there is also a manufacturing plant in Tallinn, Estonia. Direct sales offices in Belgium, Brazil, China, France, Germany, Great Britain, Hong Kong, Italy, Japan, Korea, Sweden, and the USA—together with a worldwide network of agents and distributors—support our international customer base.

FLIR Systems is at the forefront of innovation in the infrared camera industry. We anticipate market demand by constantly improving our existing cameras and developing new ones. The company has set milestones in product design and development such as the introduction of the first battery-operated portable camera for industrial inspections, and the first uncooled infrared camera, to mention just two innovations.



**Figure 2.1** 1969: Thermovision Model 661. The camera weighed approximately 25 kg (55 lb.), the oscilloscope 20 kg (44 lb.), and the tripod 15 kg (33 lb.). The operator also needed a 220 VAC generator set, and a 10 L (2.6 US gallon) jar with liquid nitrogen. To the left of the oscilloscope the Polaroid attachment (6 kg/13 lb.) can be seen.



**Figure 2.2** 2015: FLIR One, an accessory to iPhone and Android mobile phones. Weight: 90 g (3.2 oz.).

FLIR Systems manufactures all vital mechanical and electronic components of the camera systems itself. From detector design and manufacturing, to lenses and system electronics, to final testing and calibration, all production steps are carried out and supervised by our own engineers. The in-depth expertise of these infrared specialists ensures the accuracy and reliability of all vital components that are assembled into your infrared camera.

## 2.1 More than just an infrared camera

At FLIR Systems we recognize that our job is to go beyond just producing the best infrared camera systems. We are committed to enabling all users of our infrared camera systems to work more productively by providing them with the most powerful camera–software combination. Especially tailored software for predictive maintenance, R & D, and process monitoring is developed in-house. Most software is available in a wide variety of languages.

We support all our infrared cameras with a wide variety of accessories to adapt your equipment to the most demanding infrared applications.

## 2.2 Sharing our knowledge

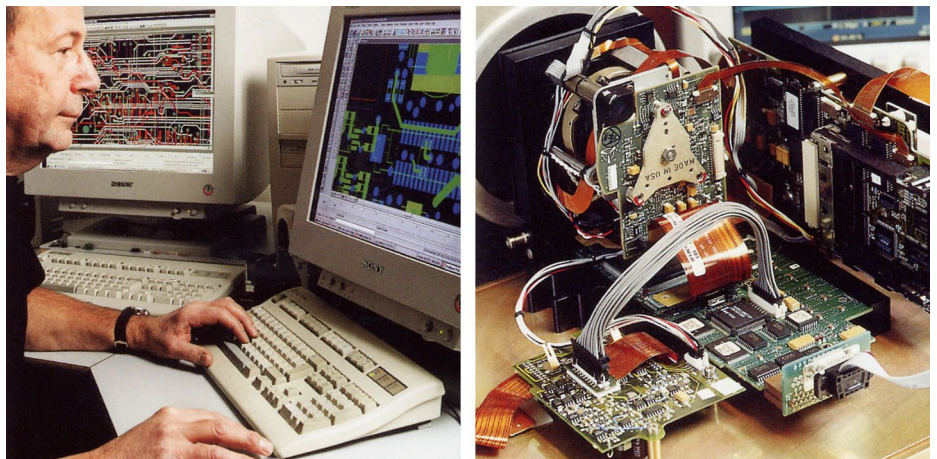
Although our cameras are designed to be very user-friendly, there is a lot more to thermography than just knowing how to handle a camera. Therefore, FLIR Systems has founded the Infrared Training Center (ITC), a separate business unit, that provides certified training courses. Attending one of the ITC courses will give you a truly hands-on learning experience.

The staff of the ITC are also there to provide you with any application support you may need in putting infrared theory into practice.

## 2.3 Supporting our customers

FLIR Systems operates a worldwide service network to keep your camera running at all times. If you discover a problem with your camera, local service centers have all the equipment and expertise to solve it within the shortest possible time. Therefore, there is no need to send your camera to the other side of the world or to talk to someone who does not speak your language.

## 2.4 A few images from our facilities



**Figure 2.2** LEFT: Development of system electronics; RIGHT: Testing of an FPA detector





**Figure 2.3** LEFT: Diamond turning machine; RIGHT: Lens polishing

A photograph from our company archives



# FLIR ix series

---

**P/N: 60101-0101**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 60101-0101  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
The FLIR i3 is an easy-to-use point-and-shoot infrared camera that gives you access to the infrared world. The camera is an affordable replacement for an infrared thermometer, providing a thermal image with temperature information in every pixel.	
The FLIR ix series cameras are light-weight, compact, and rugged, for use in harsh environments.	
Benefits:	
<ul style="list-style-type: none"> <li>Easy-to-use: The FLIR i3 is fully automatic and focus-free with an intuitive interface for simple measurement.</li> <li>Compact and rugged: The camera's low weight of 0.365 kg and an accessory belt pouch make it easy to bring along at all times. Its rugged design and passing a 2 m drop test ensure ease-of-use, even in harsh environments.</li> <li>Ground breaking affordability: The FLIR ix series cameras are the most affordable infrared cameras on the market.</li> </ul>	
Imaging and optical data	
IR resolution	60 x 60 pixels
Thermal sensitivity/NETD	< 0.15°C (0.27°F) / 150 mK
Field of view (FOV)	12.5° x 12.5°
Minimum focus distance	0.6 m (2 ft.)
Spatial resolution (IFOV)	3.7 mrad
F-number	1.5
Image frequency	9 Hz
Focus	Focus free
Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 µm
Image presentation	
Display	2.8 in. color LCD
Image adjustment	Automatic adjust/lock image
Measurement	
Object temperature range	–20°C to +250°C (–4°F to +482°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading, for ambient temperature 10°C to 35°C (+50°F to 95°F) and object temperature above +0°C (+32°F)

P/N: 60101-0101

© 2015, FLIR Systems, Inc.  
#60101-0101; r. 24597; en-US

Measurement analysis	
Spotmeter	Center spot
Emissivity correction	Variable from 0.1 to 1.0
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
Set-up	
Color palettes	Black and white, iron and rainbow
Set-up commands	Local adaptation of units, language, date and time formats
Storage of images	
Storage media	miniSD card
File formats	Standard JPEG, 14-bit measurement data included
Data communication interfaces	
Interfaces	USB Mini-B: Data transfer to and from PC
Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	3.6 V
Battery operating time	Approx. 5 hours at +25°C (+77°F) ambient temperature and typical use
Charging system	Battery is charged inside the camera.
Charging time	3 h to 90% capacity
Power management	Automatic shut-down
AC operation	AC adapter, 90–260 VAC input, 5 VDC output to camera
Environmental data	
Operating temperature range	0°C to +50°C (+32°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity
EMC	<ul style="list-style-type: none"> <li>EN 61000-6-2:2005 (Immunity)</li> <li>EN 61000-6-3:2007 (Emission)</li> <li>FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	Camera housing and lens: IP 43 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Drop	2 m (6.6 ft.)
Physical data	
Camera weight, incl. battery	0.365 kg (0.80 lb.)
Camera size (L × W × H)	223 × 79 × 85 mm (8.8 × 3.1 × 3.4 in.)
Material	<ul style="list-style-type: none"> <li>Polycarbonate + acrylonitrile butadiene styrene (PC-ABS)</li> <li>Thixomold magnesium</li> <li>Thermoplastic elastomer (TPE)</li> </ul>
Color	Black and gray
Certifications	
Certification	UL, CSA, CE, PSE and CCC

**P/N: 60101-0101**

© 2015, FLIR Systems, Inc.  
#60101-0101; r. 24597; en-US

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"><li>• Hard transport case</li><li>• Infrared camera</li><li>• Battery (inside camera)</li><li>• FLIR Tools download card</li><li>• miniSD card, with SD card adapter</li><li>• Power supply/charger with EU, UK, US and Australian plugs</li><li>• Printed documentation</li><li>• USB cable</li><li>• User documentation CD-ROM</li></ul>
Packaging, weight	2.8 kg (6.17 lb.)
Packaging, size	380 × 170 × 320 mm (15.0 × 6.7 × 12.6 in.)
EAN-13	4743254000179
UPC-12	845188002213
Country of origin	Estonia

**Supplies & accessories:**

- T910737; Memory card micro-SD with adapters
- 1910423; USB cable Std A <-> Mini-B
- T910711; Power supply/charger with EU, UK, US and AU plugs
- T197619; Hard transport case for ix
- T911093; Tool belt
- T198482; Car charger
- T198529; Pouch FLIR Ex and ix series
- T198583; FLIR Tools+ (license only)

**P/N: 60101-0201**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 60101-0201  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR i5 is an easy-to-use point-and-shoot infrared camera that gives you access to the infrared world. The camera is an affordable replacement for an infrared thermometer, providing a thermal image with temperature information in every pixel.

The FLIR ix series cameras are light-weight, compact, and rugged, for use in harsh environments.

### Benefits:

- Easy-to-use: The FLIR i5 is fully automatic and focus-free with an intuitive interface for simple measurement.
- Compact and rugged: The camera's low weight of 0.365 kg and an accessory belt pouch make it easy to bring along at all times. Its rugged design and passing a 2 m drop test ensure ease-of-use, even in harsh environments.
- Ground breaking affordability: The FLIR ix series cameras are the most affordable infrared cameras on the market.

## Imaging and optical data

IR resolution	100 × 100 pixels
Thermal sensitivity/NETD	< 0.1°C (0.18°F) / 100 mK
Field of view (FOV)	21° × 21°
Minimum focus distance	0.6 m (2 ft.)
Spatial resolution (IFOV)	3.7 mrad
F-number	1.5
Image frequency	9 Hz
Focus	Focus free

## Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm

## Image presentation

Display	2.8 in. color LCD
Image adjustment	Automatic adjust/lock image

## Measurement

Object temperature range	–20°C to +250°C (–4°F to +482°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading, for ambient temperature 10°C to 35°C (+50°F to 95°F) and object temperature above +0°C (+32°F)

P/N: 60101-0201

© 2015, FLIR Systems, Inc.  
#60101-0201; r. 24597; en-US

Measurement analysis	
Spotmeter	Center spot
Emissivity correction	Variable from 0.1 to 1.0
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
Set-up	
Color palettes	Black and white, iron and rainbow
Set-up commands	Local adaptation of units, language, date and time formats
Storage of images	
Storage media	miniSD card
File formats	Standard JPEG, 14-bit measurement data included
Data communication interfaces	
Interfaces	USB Mini-B: Data transfer to and from PC
Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	3.6 V
Battery operating time	Approx. 5 hours at +25°C (+77°F) ambient temperature and typical use
Charging system	Battery is charged inside the camera.
Charging time	3 h to 90% capacity
Power management	Automatic shut-down
AC operation	AC adapter, 90–260 VAC input, 5 VDC output to camera
Environmental data	
Operating temperature range	0°C to +50°C (+32°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity
EMC	<ul style="list-style-type: none"> <li>EN 61000-6-2:2005 (Immunity)</li> <li>EN 61000-6-3:2007 (Emission)</li> <li>FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	Camera housing and lens: IP 43 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Drop	2 m (6.6 ft.)
Physical data	
Camera weight, incl. battery	0.365 kg (0.80 lb.)
Camera size (L × W × H)	223 × 79 × 85 mm (8.8 × 3.1 × 3.4 in.)
Material	<ul style="list-style-type: none"> <li>Polycarbonate + acrylonitrile butadiene styrene (PC-ABS)</li> <li>Thixomold magnesium</li> <li>Thermoplastic elastomer (TPE)</li> </ul>
Color	Black and gray
Certifications	
Certification	UL, CSA, CE, PSE and CCC



**P/N: 60101-0201**

© 2015, FLIR Systems, Inc.  
#60101-0201; r. 24597; en-US

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"><li>• Hard transport case</li><li>• Infrared camera</li><li>• Battery (inside camera)</li><li>• FLIR Tools download card</li><li>• miniSD card, with SD card adapter</li><li>• Power supply/charger with EU, UK, US and Australian plugs</li><li>• Printed documentation</li><li>• USB cable</li><li>• User documentation CD-ROM</li></ul>
Packaging, weight	2.8 kg (6.17 lb.)
Packaging, size	380 × 170 × 320 mm (15.0 × 6.7 × 12.6 in.)
EAN-13	4743254000186
UPC-12	845188002220
Country of origin	Estonia

**Supplies & accessories:**

- T910737; Memory card micro-SD with adapters
- T910423; USB cable Std A <-> Mini-B
- T910711; Power supply/charger with EU, UK, US and AU plugs
- T197619; Hard transport case for ix
- T911093; Tool belt
- T198482; Car charger
- T198529; Pouch FLIR Ex and ix series
- T198583; FLIR Tools+ (license only)

# FLIR Ex series

---

**P/N: 63901-0101**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 63901-0101  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR Ex series cameras are point-and-shoot infrared cameras that give you access to the infrared world. A FLIR Ex series camera is an affordable replacement for an infrared thermometer, providing a thermal image with temperature information in every pixel. The new MSX and visual formats make the cameras incomparably easy to use.

The FLIR Ex series cameras are user-friendly, compact, and rugged, for use in harsh environments. The wide field of view makes them the perfect choice for building applications.

## Benefits:

- Easy to use: The FLIR Ex series cameras are fully automatic and focus-free with an intuitive interface for simple measurements in thermal, visual, or MSX mode.
- Compact and rugged: The FLIR Ex series cameras' low weight of 0.575 kg and the accessory belt pouch make them easy to bring along at all times. Their rugged design can withstand a 2 m drop test, and ensures reliability, even in harsh environments.
- Ground breaking affordability: The FLIR Ex series cameras are the most affordable infrared cameras on the market.

## Imaging and optical data

IR resolution	80 × 60 pixels
Thermal sensitivity/NETD	<0.15°C (0.27°F) / <150 mK
Field of view (FOV)	45° × 34°
Minimum focus distance	0.5 m (1.6 ft.)
Spatial resolution (IFOV)	10.3 mrad
F-number	1.5
Image frequency	9 Hz
Focus	Focus free

## Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm

## Image presentation

Display	3.0 in. 320 × 240 color LCD
Image adjustment	Automatic adjust/lock image

## Image presentation modes

Image modes	Thermal MSX, Thermal, Thermal blending, Digital camera.
Multi Spectral Dynamic Imaging (MSX)	IR image with enhanced detail presentation

**P/N: 63901-0101**

© 2015, FLIR Systems, Inc.  
#63901-0101; r. 24597; en-US

Measurement	
Object temperature range	–20°C to +250°C (–4°F to +482°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading, for ambient temperature 10°C to 35°C (+50°F to 95°F) and object temperature above +0°C (+32°F)
Measurement analysis	
Spotmeter	Center spot
Emissivity correction	Variable from 0.1 to 1.0
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
Set-up	
Color palettes	Black and white, iron and rainbow
Set-up commands	Local adaptation of units, language, date and time formats
Storage of images	
File formats	Standard JPEG, 14-bit measurement data included
Data communication interfaces	
Interfaces	USB Micro: Data transfer to and from PC and Mac device
Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	3.6 V
Battery operating time	Approx. 4 hours at +25°C (+77°F) ambient temperature and typical use
Charging system	Battery is charged inside the camera or in specific charger.
Charging time	2.5 hours to 90% capacity in camera. 2 hours in charger.
Power management	Automatic shut-down
AC operation	AC adapter, 90–260 VAC input, 5 VDC output to camera
Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity
EMC	<ul style="list-style-type: none"> <li>• WEEE 2012/19/EC</li> <li>• RoHs 2011/65/EC</li> <li>• C-Tick</li> <li>• EN 61000-6-3</li> <li>• EN 61000-6-2</li> <li>• FCC 47 CFR Part 15 Class B</li> </ul>
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Drop	2 m (6.6 ft.)
Physical data	
Camera weight, incl. battery	0.575 kg (1.27 lb.)
Camera size (L × W × H)	244 × 95 × 140 mm (9.6 × 3.7 × 5.5 in.)
Color	Black and gray
Certifications	
Certification	UL, CSA, CE, PSE and CCC

**P/N: 63901-0101**

© 2015, FLIR Systems, Inc.  
#63901-0101; r. 24597; en-US

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"><li>• Infrared camera</li><li>• Hard transport case</li><li>• Battery (inside camera)</li><li>• USB cable</li><li>• Power supply/charger with EU, UK, US and Australian plugs</li><li>• User documentation CD-ROM</li><li>• Printed documentation</li><li>• FLIR Tools download card</li></ul>
Packaging, weight	2.9 kg (6.4 lb.)
Packaging, size	385 × 165 × 315 mm (15.2 × 6.5 × 12.4 in.)
EAN-13	4743254000995
UPC-12	845188004941
Country of origin	Estonia

**Supplies & accessories:**

- T911093; Tool belt
- T198528; Hard transport case FLIR Ex-series
- T198530; Battery
- T198531; Battery charger incl power supply
- T198532; Car charger
- T198534; Power supply USB-micro
- T198529; Pouch FLIR Ex and ix series
- T198533; USB cable Std A <-> Micro B
- T198583; FLIR Tools+ (license only)

**P/N: 63905-0501**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 63905-0501  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR Ex series cameras are point-and-shoot infrared cameras that give you access to the infrared world. A FLIR Ex series camera is an affordable replacement for an infrared thermometer, providing a thermal image with temperature information in every pixel. The new MSX and visual formats make the cameras incomparably easy to use.

The FLIR Ex series cameras are user-friendly, compact, and rugged, for use in harsh environments. The wide field of view makes them the perfect choice for building applications.

## Benefits:

- Easy to use: The FLIR Ex series cameras are fully automatic and focus-free with an intuitive interface for simple measurements in thermal, visual, or MSX mode.
- Compact and rugged: The FLIR Ex series cameras' low weight of 0.575 kg and the accessory belt pouch make them easy to bring along at all times. Their rugged design can withstand a 2 m drop test, and ensures reliability, even in harsh environments.
- Ground breaking affordability: The FLIR Ex series cameras are the most affordable infrared cameras on the market.

## Imaging and optical data

IR resolution	120 × 90 pixels
Thermal sensitivity/NETD	<0.10°C (0.27°F) / <100 mK
Field of view (FOV)	45° × 34°
Minimum focus distance	0.5 m (1.6 ft.)
Spatial resolution (IFOV)	6.9 mrad
F-number	1.5
Image frequency	9 Hz
Focus	Focus free

## Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm

## Image presentation

Display	3.0 in. 320 × 240 color LCD
Image adjustment	Automatic adjust/lock image

## Image presentation modes

Image modes	Thermal MSX, Thermal, Thermal blending, Digital camera.
Multi Spectral Dynamic Imaging (MSX)	IR image with enhanced detail presentation

P/N: 63905-0501

© 2015, FLIR Systems, Inc.  
#63905-0501; r. 24597; en-US

Measurement	
Object temperature range	–20°C to +250°C (–4°F to +482°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading, for ambient temperature 10°C to 35°C (+50°F to 95°F) and object temperature above +0°C (+32°F)
Measurement analysis	
Spotmeter	Center spot
Area	Box with max./min.
Emissivity correction	Variable from 0.1 to 1.0
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
Set-up	
Color palettes	Black and white, iron and rainbow
Set-up commands	Local adaptation of units, language, date and time formats
Storage of images	
File formats	Standard JPEG, 14-bit measurement data included
Data communication interfaces	
Interfaces	USB Micro: Data transfer to and from PC and Mac device
Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	3.6 V
Battery operating time	Approx. 4 hours at +25°C (+77°F) ambient temperature and typical use
Charging system	Battery is charged inside the camera or in specific charger.
Charging time	2.5 hours to 90% capacity in camera. 2 hours in charger.
Power management	Automatic shut-down
AC operation	AC adapter, 90–260 VAC input, 5 VDC output to camera
Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity
EMC	<ul style="list-style-type: none"> <li>• WEEE 2012/19/EC</li> <li>• RoHS 2011/65/EC</li> <li>• C-Tick</li> <li>• EN 61000-6-3</li> <li>• EN 61000-6-2</li> <li>• FCC 47 CFR Part 15 Class B</li> </ul>
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Drop	2 m (6.6 ft.)
Physical data	
Camera weight, incl. battery	0.575 kg (1.27 lb.)
Camera size (L × W × H)	244 × 95 × 140 mm (9.6 × 3.7 × 5.5 in.)
Color	Black and gray

**P/N: 63905-0501**

© 2015, FLIR Systems, Inc.  
#63905-0501; r. 24597; en-US

Certifications	
Certification	UL, CSA, CE, PSE and CCC
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera</li> <li>• Hard transport case</li> <li>• Battery (inside camera)</li> <li>• USB cable</li> <li>• Power supply/charger with EU, UK, US and Australian plugs</li> <li>• User documentation CD-ROM</li> <li>• Printed documentation</li> <li>• FLIR Tools download card</li> </ul>
Packaging, weight	2.9 kg (6.4 lb.)
Packaging, size	385 × 165 × 315 mm (15.2 × 6.5 × 12.4 in.)
EAN-13	4743254001114
UPC-12	845188005146
Country of origin	Estonia

#### Supplies & accessories:

- T911093; Tool belt
- T198528; Hard transport case FLIR Ex-series
- T198530; Battery
- T198531; Battery charger incl power supply
- T198532; Car charger
- T198534; Power supply USB-micro
- T198529; Pouch FLIR Ex and ix series
- T198533; USB cable Std A <-> Micro B
- T198583; FLIR Tools+ (license only)



**P/N: 63902-0202**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 63902-0202  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR Ex series cameras are point-and-shoot infrared cameras that give you access to the infrared world. A FLIR Ex series camera is an affordable replacement for an infrared thermometer, providing a thermal image with temperature information in every pixel. The new MSX and visual formats make the cameras incomparably easy to use.

The FLIR Ex series cameras are user-friendly, compact, and rugged, for use in harsh environments. The wide field of view makes them the perfect choice for building applications.

## Benefits:

- Easy to use: The FLIR Ex series cameras are fully automatic and focus-free with an intuitive interface for simple measurements in thermal, visual, or MSX mode.
- Compact and rugged: The FLIR Ex series cameras' low weight of 0.575 kg and the accessory belt pouch make them easy to bring along at all times. Their rugged design can withstand a 2 m drop test, and ensures reliability, even in harsh environments.
- Ground breaking affordability: The FLIR Ex series cameras are the most affordable infrared cameras on the market.

## Imaging and optical data

IR resolution	160 × 120 pixels
Thermal sensitivity/NETD	<0.06°C (0.11°F) / <60 mK
Field of view (FOV)	45° × 34°
Minimum focus distance	0.5 m (1.6 ft.)
Spatial resolution (IFOV)	5.2 mrad
F-number	1.5
Image frequency	9 Hz
Focus	Focus free

## Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm

## Image presentation

Display	3.0 in. 320 × 240 color LCD
Image adjustment	Automatic/Manual

## Image presentation modes

Image modes	Thermal MSX, Thermal, Picture-in-Picture, Thermal blending, Digital camera.
Multi Spectral Dynamic Imaging (MSX)	IR image with enhanced detail presentation
Picture in Picture	IR area on visual image

**P/N: 63902-0202**

© 2015, FLIR Systems, Inc.  
#63902-0202; r. 24597; en-US

Measurement	
Object temperature range	–20°C to +250°C (–4°F to +482°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading, for ambient temperature 10°C to 35°C (+50°F to 95°F) and object temperature above +0°C (+32°F)
Measurement analysis	
Spotmeter	Center spot
Area	Box with max./min.
Emissivity correction	Variable from 0.1 to 1.0
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
Set-up	
Color palettes	Black and white, iron and rainbow
Set-up commands	Local adaptation of units, language, date and time formats
Storage of images	
File formats	Standard JPEG, 14-bit measurement data included
Data communication interfaces	
Interfaces	USB Micro: Data transfer to and from PC and Mac device
Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	3.6 V
Battery operating time	Approx. 4 hours at +25°C (+77°F) ambient temperature and typical use
Charging system	Battery is charged inside the camera or in specific charger.
Charging time	2.5 hours to 90% capacity in camera. 2 hours in charger.
Power management	Automatic shut-down
AC operation	AC adapter, 90–260 VAC input, 5 VDC output to camera
Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity
EMC	<ul style="list-style-type: none"> <li>• WEEE 2012/19/EC</li> <li>• RoHS 2011/65/EC</li> <li>• C-Tick</li> <li>• EN 61000-6-3</li> <li>• EN 61000-6-2</li> <li>• FCC 47 CFR Part 15 Class B</li> </ul>
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Drop	2 m (6.6 ft.)
Physical data	
Camera weight, incl. battery	0.575 kg (1.27 lb.)
Camera size (L × W × H)	244 × 95 × 140 mm (9.6 × 3.7 × 5.5 in.)
Color	Black and gray

**P/N: 63902-0202**

© 2015, FLIR Systems, Inc.  
#63902-0202; r. 24597; en-US

Certifications	
Certification	UL, CSA, CE, PSE and CCC
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera</li> <li>• Hard transport case</li> <li>• Battery (inside camera)</li> <li>• USB cable</li> <li>• Power supply/charger with EU, UK, US and Australian plugs</li> <li>• User documentation CD-ROM</li> <li>• Printed documentation</li> <li>• FLIR Tools download card</li> </ul>
Packaging, weight	2.9 kg (6.4 lb.)
Packaging, size	385 × 165 × 315 mm (15.2 × 6.5 × 12.4 in.)
EAN-13	4743254001008
UPC-12	845188004958
Country of origin	Estonia

**Supplies & accessories:**

- T911093; Tool belt
- T198528; Hard transport case FLIR Ex-series
- T198530; Battery
- T198531; Battery charger incl power supply
- T198532; Car charger
- T198534; Power supply USB-micro
- T198529; Pouch FLIR Ex and ix series
- T198533; USB cable Std A <-> Micro B
- T198583; FLIR Tools+ (license only)

# FLIR Exx series

---

**P/N: 64502-0801**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 64502-0801  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR Exx series cameras are compact and rugged infrared cameras that can be used in harsh environments while still providing you with the latest technology such as a modern touch screen. A FLIR Exx series camera is the perfect choice when you are looking for a robust but feature-rich camera at an affordable price.

### Benefits:

- Robust and sophisticated: The FLIR Exx series cameras have a robust and light-weight design and can withstand a 2 m drop. Large buttons combined with a modern touch screen and extensive measuring capabilities, they are the right choice for demanding inspections in the field.
- Best value for money: The FLIR Exx series cameras combine good performance (up to 320 × 240 pixels), a user-friendly interface, and a rugged point-and-shoot design with an affordable price.

## Imaging and optical data

IR resolution	160 × 120 pixels
Thermal sensitivity/NETD	< 0.07°C @ +30°C (+86°F) / 70 mK
Field of view (FOV)	25° × 19°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
Spatial resolution (IFOV)	2.72 mrad
F-number	1.3
Image frequency	60 Hz
Focus	Manual
Digital zoom	2x and 4x
Panning	Panning over zoomed-in images

## Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 µm

## Image presentation

Display	Touch screen, 3.5 in. LCD, 320 × 240 pixels
Image adjustment	Auto or manual

## Image presentation modes

Image modes	IR image, visual image, MSX, picture in picture, thumbnail gallery
Picture in Picture	IR area on visual image

P/N: 64502-0801

© 2015, FLIR Systems, Inc.  
#64502-0801; r. 24597; en-US

Measurement	
Object temperature range	<ul style="list-style-type: none"> <li>–20°C to +120°C (–4°F to +248°F)</li> <li>0°C to +650°C (+32°F to +1202°F)</li> </ul>
Accuracy	±2°C (±3.6°F) or ±2% of reading, for ambient temperature 10°C to 35°C (+50°F to 95°F)
Measurement analysis	
Spotmeter	3
Area	Box with max./min./average
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
External optics/windows correction	Automatic, based on inputs of optics/window transmission and temperature
Measurement corrections	Reflected temperature, optics transmission and atmospheric transmission
Set-up	
Color palettes	Arctic, Gray, Iron, Lava, Rainbow and Rainbow HC
Set-up commands	Local adaptation of units, language, date and time formats
Storage of images	
Image storage	Standard JPEG, including measurement data, on memory card
Image storage mode	Simultaneous storage of images in IR, visual and MSX
Image annotations	
Text	Text from predefined list or soft keyboard on touch screen
Report generation	<ul style="list-style-type: none"> <li>FLIR Tools software specifically designed to provide an easy way to create inspection reports. It is available on the major platforms – Android, Windows, MacOS, and iOS.</li> </ul>
Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card
Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB
Non-radiometric IR video streaming	Uncompressed colorized video using USB
Digital camera	
Built-in digital camera	3.1 Mpixels (2048 × 1536 pixels), and one LED light
Digital camera, focus	Fixed focus
Built-in digital lens data	FOV 53° × 41°
Digital camera, aspect ratio	4:3
Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser

P/N: 64502-0801

© 2015, FLIR Systems, Inc.  
#64502-0801; r. 24597; en-US

<b>Laser pointer</b>	
Laser power	1 mW
Laser wavelength	635 nm (red)
<b>Data communication interfaces</b>	
SD Card	One card slot for removable SD memory cards
<b>USB</b>	
USB	<ul style="list-style-type: none"> <li>USB-A: Connect external USB device</li> <li>USB Mini-B: Data transfer to and from PC / uncompressed colorized video</li> </ul>
USB, standard	USB Mini-B: 2.0
USB, connector type	<ul style="list-style-type: none"> <li>USB-A connector</li> <li>USB Mini-B connector</li> </ul>
<b>Composite video</b>	
Video out	Composite
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC)
Video, connector type	4-pole 3.5 mm jack
<b>Power system</b>	
Battery type	Rechargeable Li ion battery
Battery voltage	3.7 V
Battery capacity	4.4 Ah, at +20°C to +25°C (+68°F to +77°F)
Battery operating time	Approx. 4 hours at +25°C (+77°F) ambient temperature and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	4 h to 90% capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
Power management	Automatic shutdown and sleep mode (user selectable)
AC operation	AC adapter, 90–260 VAC input, 12 V output to camera
Start-up time from sleep mode	Instant on
<b>Environmental data</b>	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none"> <li>EN 61000-6-2 (Immunity)</li> <li>EN 61000-6-3 (Emission)</li> <li>FCC 47 CFR Part 15 B (Emission)</li> </ul>
Magnetic fields	EN 61 000-4-8, Test level 5 for continuous field (severe industrial environment)
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Drop	2 m (6.6 ft.)
Safety	EN/UL/CSA/PSE 60950-1
<b>Physical data</b>	
Camera weight, incl. battery	0.869 kg (1.91 lb.)
Camera size (L × W × H)	246 × 97 × 184 mm (9.7 × 3.8 × 7.2 in.)
Tripod mounting	UNC ¼"-20 (adapter needed)

**P/N: 64502-0801**

© 2015, FLIR Systems, Inc.  
#64502-0801; r. 24597; en-US

Physical data	
Material	<ul style="list-style-type: none"> <li>Polycarbonate + acrylonitrile butadiene styrene (PC-ABS)</li> <li>Thixomold magnesium</li> <li>Thermoplastic elastomer (TPE)</li> </ul>
Color	Graphite gray and black
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Hard transport case</li> <li>Infrared camera with lens</li> <li>Battery</li> <li>FLIR Tools download card</li> <li>Handstrap</li> <li>Memory card</li> <li>Power supply, incl. multi-plugs</li> <li>Printed documentation</li> <li>USB cable</li> <li>User documentation CD-ROM</li> <li>Video cable</li> </ul>
Packaging, weight	5.2 kg (11.5 lb.)
Packaging, size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in.)
EAN-13	4743254001206
UPC-12	845188005238
Country of origin	Estonia

#### Supplies & accessories:

- 1196961; IR lens, f = 30 mm, 15° incl. case
- 1196960; IR lens, f = 10 mm, 45° incl. case
- T910814; Power supply, incl. multi plugs
- T911230ACC; Memory card SDHC 4 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- 1910582ACC; Video cable
- T911093; Tool belt
- T198125; Battery charger, incl. power supply with multi plugs (Exx, Kxx)
- T198113; IR lens, 76 mm (6°) with case and mounting support for Exx
- T198487; Li-Ion Battery pack 3.7V 17Wh
- T198484; Pouch for FLIR Exx series
- T198485; Sun shield
- T198341ACC; Transport case Exx
- T198486; Tripod Adapter
- 19250-100; IR Window 2 in.
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4





---

**P/N: 64502-0801**

© 2015, FLIR Systems, Inc.  
#64502-0801; r. 24597; en-US

- T199042; FLIR ResearchIR Standard 4 Upgrade

## P/N: 64502-1001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 64502-1001  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
The FLIR Exx series cameras are compact and rugged infrared cameras that can be used in harsh environments while still providing you with the latest technology such as a modern touch screen. A FLIR Exx series camera is the perfect choice when you are looking for a robust but feature-rich camera at an affordable price.	
Benefits:	
<ul style="list-style-type: none"> <li>Robust and sophisticated: The FLIR Exx series cameras have a robust and light-weight design and can withstand a 2 m drop. Large buttons combined with a modern touch screen and extensive measuring capabilities, they are the right choice for demanding inspections in the field.</li> <li>Best value for money: The FLIR Exx series cameras combine good performance (up to 320 × 240 pixels), a user-friendly interface, and a rugged point-and-shoot design with an affordable price.</li> </ul>	
Imaging and optical data	
IR resolution	160 × 120 pixels
Thermal sensitivity/NETD	< 0.07°C @ +30°C (+86°F) / 70 mK
Field of view (FOV)	25° × 19°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
Spatial resolution (IFOV)	2.72 mrad
F-number	1.3
Image frequency	60 Hz
Focus	Manual
Digital zoom	2×
Panning	Panning over zoomed-in images
Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm
Image presentation	
Display	Touch screen, 3.5 in. LCD, 320 × 240 pixels
Image adjustment	Auto or manual
Image presentation modes	
Image modes	IR image, visual image, MSX, picture in picture, thumbnail gallery
Picture in Picture	IR area on visual image

P/N: 64502-1001

© 2015, FLIR Systems, Inc.  
#64502-1001; r. 24597; en-US

Measurement	
Object temperature range	<ul style="list-style-type: none"> <li>–20°C to +120°C (–4°F to +248°F)</li> <li>0°C to +650°C (+32°F to +1202°F)</li> </ul>
Accuracy	±2°C (±3.6°F) or ±2% of reading, for ambient temperature 10°C to 35°C (+50°F to 95°F)
Measurement analysis	
Spotmeter	3
Area	3 boxes with max./min./average
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
External optics/windows correction	Automatic, based on inputs of optics/window transmission and temperature
Measurement corrections	Reflected temperature, optics transmission and atmospheric transmission
Set-up	
Color palettes	Arctic, Gray, Iron, Lava, Rainbow and Rainbow HC
Set-up commands	Local adaptation of units, language, date and time formats
Storage of images	
Image storage	Standard JPEG, including measurement data, on memory card
Image storage mode	Simultaneous storage of images in IR, visual and MSX
Image annotations	
Text	Text from predefined list or soft keyboard on touch screen
Report generation	<ul style="list-style-type: none"> <li>FLIR Tools software specifically designed to provide an easy way to create inspection reports. It is available on the major platforms – Android, Windows, MacOS, and iOS.</li> </ul>
Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card
Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB
Non-radiometric IR video streaming	Uncompressed colorized video using USB
Digital camera	
Built-in digital camera	3.1 Mpixels (2048 × 1536 pixels), and one LED light
Digital camera, focus	Fixed focus
Built-in digital lens data	FOV 53° × 41°
Digital camera, aspect ratio	4:3
Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser

**P/N: 64502-1001**

© 2015, FLIR Systems, Inc.  
#64502-1001; r. 24597; en-US

<b>Laser pointer</b>	
Laser power	1 mW
Laser wavelength	635 nm (red)
<b>Data communication interfaces</b>	
SD Card	One card slot for removable SD memory cards
<b>USB</b>	
USB	<ul style="list-style-type: none"> <li>USB-A: Connect external USB device</li> <li>USB Mini-B: Data transfer to and from PC / uncompressed colorized video</li> </ul>
USB, standard	USB Mini-B: 2.0
USB, connector type	<ul style="list-style-type: none"> <li>USB-A connector</li> <li>USB Mini-B connector</li> </ul>
<b>Composite video</b>	
Video out	Composite
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC)
Video, connector type	4-pole 3.5 mm jack
<b>Power system</b>	
Battery type	Rechargeable Li ion battery
Battery voltage	3.7 V
Battery capacity	4.4 Ah, at +20°C to +25°C (+68°F to +77°F)
Battery operating time	Approx. 4 hours at +25°C (+77°F) ambient temperature and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	4 h to 90% capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
Power management	Automatic shutdown and sleep mode (user selectable)
AC operation	AC adapter, 90–260 VAC input, 12 V output to camera
Start-up time from sleep mode	Instant on
<b>Environmental data</b>	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none"> <li>EN 61000-6-2 (Immunity)</li> <li>EN 61000-6-3 (Emission)</li> <li>FCC 47 CFR Part 15 B (Emission)</li> </ul>
Magnetic fields	EN 61 000-4-8, Test level 5 for continuous field (severe industrial environment)
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Drop	2 m (6.6 ft.)
Safety	EN/UL/CSA/PSE 60950-1
<b>Physical data</b>	
Camera weight, incl. battery	0.869 kg (1.91 lb.)
Camera size (L × W × H)	246 × 97 × 184 mm (9.7 × 3.8 × 7.2 in.)
Tripod mounting	UNC ¼"-20 (adapter needed)

**P/N: 64502-1001**

© 2015, FLIR Systems, Inc.  
#64502-1001; r. 24597; en-US

Physical data	
Material	<ul style="list-style-type: none"> <li>Polycarbonate + acrylonitrile butadiene styrene (PC-ABS)</li> <li>Thixomold magnesium</li> <li>Thermoplastic elastomer (TPE)</li> </ul>
Color	Graphite gray and black
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Hard transport case</li> <li>Infrared camera with lens</li> <li>Battery</li> <li>FLIR Tools download card</li> <li>Handstrap</li> <li>Memory card</li> <li>Power supply, incl. multi-plugs</li> <li>Printed documentation</li> <li>USB cable</li> <li>User documentation CD-ROM</li> <li>Video cable</li> </ul>
Packaging, weight	5.2 kg (11.5 lb.)
Packaging, size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in.)
EAN-13	4743254001220
UPC-12	845188005252
Country of origin	Estonia

**Supplies & accessories:**

- 1196961; IR lens, f = 30 mm, 15° incl. case
- 1196960; IR lens, f = 10 mm, 45° incl. case
- T910814; Power supply, incl. multi plugs
- T911230ACC; Memory card SDHC 4 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- 1910582ACC; Video cable
- T911093; Tool belt
- T198125; Battery charger, incl. power supply with multi plugs (Exx, Kxx)
- T198113; IR lens, 76 mm (6°) with case and mounting support for Exx
- T198487; Li-Ion Battery pack 3.7V 17Wh
- T198484; Pouch for FLIR Exx series
- T198485; Sun shield
- T198341ACC; Transport case Exx
- T198486; Tripod Adapter
- 19250-100; IR Window 2 in.
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4



---

**P/N: 64502-1001**

© 2015, FLIR Systems, Inc.  
#64502-1001; r. 24597; en-US

- T199042; FLIR ResearchIR Standard 4 Upgrade

**P/N: 64501-0101**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 64501-0101  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR Exx series cameras are compact and rugged infrared cameras that can be used in harsh environments while still providing you with the latest technology such as a modern touch screen and wireless connectivity. A FLIR Exx series camera is the perfect choice when you are looking for a robust but feature-rich camera at an affordable price.

### Benefits:

- Robust and sophisticated: The FLIR Exx series cameras have a robust and light-weight design and can withstand a 2 m drop. Large buttons combined with a modern touch screen and extensive measuring capabilities, they are the right choice for demanding inspections in the field.
- Easy communication: The Wi-Fi connectivity of the FLIR Exx series cameras allows you to connect to smart phones and tablets, for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image.
- Best value for money: The FLIR Exx series cameras combine good performance (up to 320 × 240 pixels), a user-friendly interface, and a rugged point-and-shoot design with an affordable price.

## Imaging and optical data

IR resolution	160 × 120 pixels
Thermal sensitivity/NETD	<0.07°C @ +30°C (+86°F) / 70 mK
Field of view (FOV)	25° × 19°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
Spatial resolution (IFOV)	2.72 mrad
F-number	1.3
Image frequency	60 Hz
Focus	Manual
Digital zoom	2×
Panning	Panning over zoomed-in images

## Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 µm

## Image presentation

Display	Touch screen, 3.5 in. LCD, 320 × 240 pixels
Image adjustment	Auto or manual

P/N: 64501-0101

© 2015, FLIR Systems, Inc.  
#64501-0101; r. 24597; en-US

Image presentation modes	
Image modes	IR image, visual image, MSX, picture in picture, thumbnail gallery
Picture in Picture	IR area on visual image
Measurement	
Object temperature range	<ul style="list-style-type: none"> <li>–20°C to +120°C (–4°F to +248°F)</li> <li>0°C to +650°C (+32°F to +1202°F)</li> </ul>
Accuracy	±2°C (±3.6°F) or ±2% of reading, for ambient temperature 10°C to 35°C (+50°F to 95°F)
Measurement analysis	
Spotmeter	3
Area	3 boxes with max./min./average
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
External optics/windows correction	Automatic, based on inputs of optics/window transmission and temperature
Measurement corrections	Reflected temperature, optics transmission and atmospheric transmission
Set-up	
Color palettes	Arctic, Gray, Iron, Lava, Rainbow and Rainbow HC
Set-up commands	Local adaptation of units, language, date and time formats
Storage of images	
Image storage	Standard JPEG, including measurement data, on memory card
Image storage mode	Simultaneous storage of images in IR, visual and MSX
Image annotations	
Voice	60 seconds (via Bluetooth)
Text	Text from predefined list or soft keyboard on touch screen
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> <li>FLIR Tools software specifically designed to provide an easy way to create inspection reports. It is available on the major platforms – Android, Windows, MacOS, and iOS.</li> </ul>
Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card
Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB
Non-radiometric IR video streaming	Uncompressed colorized video using USB
Digital camera	
Built-in digital camera	3.1 Mpixels (2048 × 1536 pixels), and one LED light
Digital camera, focus	Fixed focus



P/N: 64501-0101

© 2015, FLIR Systems, Inc.  
#64501-0101; r. 24597; en-US

Digital camera	
Built-in digital lens data	FOV 53° × 41°
Digital camera, aspect ratio	4:3
Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser
Laser power	1 mW
Laser wavelength	635 nm (red)
Data communication interfaces	
Wi-Fi	Peer-to-peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards
Audio	Microphone headset via Bluetooth for voice annotation of images
USB	
USB	<ul style="list-style-type: none"> <li>USB-A: Connect external USB device</li> <li>USB Mini-B: Data transfer to and from PC / uncompressed colorized video</li> </ul>
USB, standard	USB Mini-B: 2.0
USB, connector type	<ul style="list-style-type: none"> <li>USB-A connector</li> <li>USB Mini-B connector</li> </ul>
Composite video	
Video out	Composite
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC)
Video, connector type	4-pole 3.5 mm jack
Radio	
Wi-Fi	Standard: 802.11 b/g Frequency range: 2412–2462 MHz Max. output power: 15 dBm
Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal
Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	3.7 V
Battery capacity	4.4 Ah, at +20°C to +25°C (+68°F to +77°F)
Battery operating time	Approx. 4 hours at +25°C (+77°F) ambient temperature and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	4 h to 90% capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
Power management	Automatic shutdown and sleep mode (user selectable)
AC operation	AC adapter, 90–260 VAC input, 12 V output to camera
Start-up time from sleep mode	Instant on

**P/N: 64501-0101**

 © 2015, FLIR Systems, Inc.  
 #64501-0101; r. 24597; en-US

<b>Environmental data</b>	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none"> <li>• ETSI EN 301 489-1 (radio)</li> <li>• ETSI EN 301 489-17</li> <li>• EN 61000-6-2 (Immunity)</li> <li>• EN 61000-6-3 (Emission)</li> <li>• FCC 47 CFR Part 15 B (Emission)</li> <li>• ICES-003</li> </ul>
Radio spectrum	<ul style="list-style-type: none"> <li>• ETSI EN 300 328</li> <li>• FCC Part 15.247</li> <li>• RSS-210</li> </ul>
Magnetic fields	EN 61 000-4-8, Test level 5 for continuous field (severe industrial environment)
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Drop	2 m (6.6 ft.)
Safety	EN/UL/CSA/PSE 60950-1

<b>Physical data</b>	
Camera weight, incl. battery	0.869 kg (1.91 lb.)
Camera size (L × W × H)	246 × 97 × 184 mm (9.7 × 3.8 × 7.2 in.)
Tripod mounting	UNC ¼"-20 (adapter needed)
Material	<ul style="list-style-type: none"> <li>• Polycarbonate + acrylonitrile butadiene styrene (PC-ABS)</li> <li>• Thixomold magnesium</li> <li>• Thermoplastic elastomer (TPE)</li> </ul>
Color	Graphite gray and black

<b>Shipping information</b>	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Hard transport case</li> <li>• Infrared camera with lens</li> <li>• Battery</li> <li>• FLIR Tools download card</li> <li>• Handstrap</li> <li>• Memory card</li> <li>• Power supply, incl. multi-plugs</li> <li>• Printed documentation</li> <li>• USB cable</li> <li>• User documentation CD-ROM</li> <li>• Video cable</li> </ul>
Packaging, weight	5.2 kg (11.5 lb.)
Packaging, size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in.)
EAN-13	4743254001138
UPC-12	845188005160
Country of origin	Estonia

**Supplies & accessories:**

- 1196961; IR lens, f = 30 mm, 15° incl. case
- 1196960; IR lens, f = 10 mm, 45° incl. case
- T910814; Power supply, incl. multi plugs
- T911230ACC; Memory card SDHC 4 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- 1910582ACC; Video cable

**P/N: 64501-0101**

© 2015, FLIR Systems, Inc.  
#64501-0101; r. 24597; en-US

- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- T198125; Battery charger, incl. power supply with multi plugs (Exx, Kxx)
- T198113; IR lens, 76 mm (6°) with case and mounting support for Exx
- T198487; Li-Ion Battery pack 3.7V 17Wh
- T198484; Pouch for FLIR Exx series
- T198485; Sun shield
- T198341ACC; Transport case Exx
- T198486; Tripod Adapter
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade

**P/N: 64501-0103**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 64501-0103  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR Exx series cameras are compact and rugged infrared cameras that can be used in harsh environments while still providing you with the latest technology such as a modern touch screen and wireless connectivity. A FLIR Exx series camera is the perfect choice when you are looking for a robust but feature-rich camera at an affordable price.

### Benefits:

- Robust and sophisticated: The FLIR Exx series cameras have a robust and light-weight design and can withstand a 2 m drop. Large buttons combined with a modern touch screen and extensive measuring capabilities, they are the right choice for demanding inspections in the field.
- Easy communication: The Wi-Fi connectivity of the FLIR Exx series cameras allows you to connect to smart phones and tablets, for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image.
- Best value for money: The FLIR Exx series cameras combine good performance (up to 320 × 240 pixels), a user-friendly interface, and a rugged point-and-shoot design with an affordable price.

## Imaging and optical data

IR resolution	160 × 120 pixels
Thermal sensitivity/NETD	< 0.07°C @ +30°C (+86°F) / 70 mK
Field of view (FOV)	25° × 19°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
Spatial resolution (IFOV)	2.72 mrad
F-number	1.3
Image frequency	60 Hz
Focus	Manual
Digital zoom	2×
Panning	Panning over zoomed-in images

## Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm

## Image presentation

Display	Touch screen, 3.5 in. LCD, 320 × 240 pixels
Image adjustment	Auto or manual

P/N: 64501-0103

© 2015, FLIR Systems, Inc.  
#64501-0103; r. 24597; en-US

Image presentation modes	
Image modes	IR image, visual image, MSX, picture in picture, thumbnail gallery
Picture in Picture	IR area on visual image
Measurement	
Object temperature range	<ul style="list-style-type: none"> <li>–20°C to +120°C (–4°F to +248°F)</li> <li>0°C to +650°C (+32°F to +1202°F)</li> </ul>
Accuracy	±2°C (±3.6°F) or ±2% of reading, for ambient temperature 10°C to 35°C (+50°F to 95°F)
Measurement analysis	
Spotmeter	3
Area	3 boxes with max./min./average
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
External optics/windows correction	Automatic, based on inputs of optics/window transmission and temperature
Measurement corrections	Reflected temperature, optics transmission and atmospheric transmission
Set-up	
Color palettes	Arctic, Gray, Iron, Lava, Rainbow and Rainbow HC
Set-up commands	Local adaptation of units, language, date and time formats
Storage of images	
Image storage	Standard JPEG, including measurement data, on memory card
Image storage mode	Simultaneous storage of images in IR, visual and MSX
Image annotations	
Text	Text from predefined list or soft keyboard on touch screen
Report generation	<ul style="list-style-type: none"> <li>FLIR Tools software specifically designed to provide an easy way to create inspection reports. It is available on the major platforms – Android, Windows, MacOS, and iOS.</li> </ul>
Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card
Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB
Non-radiometric IR video streaming	Uncompressed colorized video using USB
Digital camera	
Built-in digital camera	3.1 Mpixels (2048 × 1536 pixels), and one LED light
Digital camera, focus	Fixed focus
Built-in digital lens data	FOV 53° × 41°
Digital camera, aspect ratio	4:3

**P/N: 64501-0103**

 © 2015, FLIR Systems, Inc.  
 #64501-0103; r. 24597; en-US

<b>Laser pointer</b>	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser
Laser power	1 mW
Laser wavelength	635 nm (red)
<b>Data communication interfaces</b>	
Wi-Fi	Peer-to-peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards
<b>USB</b>	
USB	<ul style="list-style-type: none"> <li>• USB-A: Connect external USB device</li> <li>• USB Mini-B: Data transfer to and from PC / uncompressed colorized video</li> </ul>
USB, standard	USB Mini-B: 2.0
USB, connector type	<ul style="list-style-type: none"> <li>• USB-A connector</li> <li>• USB Mini-B connector</li> </ul>
<b>Composite video</b>	
Video out	Composite
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC)
Video, connector type	4-pole 3.5 mm jack
<b>Power system</b>	
Battery type	Rechargeable Li ion battery
Battery voltage	3.7 V
Battery capacity	4.4 Ah, at +20°C to +25°C (+68°F to +77°F)
Battery operating time	Approx. 4 hours at +25°C (+77°F) ambient temperature and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	4 h to 90% capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
Power management	Automatic shutdown and sleep mode (user selectable)
AC operation	AC adapter, 90–260 VAC input, 12 V output to camera
Start-up time from sleep mode	Instant on
<b>Environmental data</b>	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none"> <li>• EN 61000-6-2 (Immunity)</li> <li>• EN 61000-6-3 (Emission)</li> <li>• FCC 47 CFR Part 15 B (Emission)</li> </ul>
Magnetic fields	EN 61 000-4-8, Test level 5 for continuous field (severe industrial environment)
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

**P/N: 64501-0103**

 © 2015, FLIR Systems, Inc.  
 #64501-0103; r. 24597; en-US

Environmental data	
Drop	2 m (6.6 ft.)
Safety	EN/UL/CSA/PSE 60950-1
Physical data	
Camera weight, incl. battery	0.869 kg (1.91 lb.)
Camera size (L × W × H)	246 × 97 × 184 mm (9.7 × 3.8 × 7.2 in.)
Tripod mounting	UNC ¼"-20 (adapter needed)
Material	<ul style="list-style-type: none"> <li>Polycarbonate + acrylonitrile butadiene styrene (PC-ABS)</li> <li>Thixomold magnesium</li> <li>Thermoplastic elastomer (TPE)</li> </ul>
Color	Graphite gray and black
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Hard transport case</li> <li>Infrared camera with lens</li> <li>Battery</li> <li>FLIR ResearchIR Standard 4</li> <li>Handstrap</li> <li>IR lens, f = 10 mm, 45° incl. case</li> <li>Memory card</li> <li>Power supply, incl. multi-plugs</li> <li>Printed documentation</li> <li>USB cable</li> <li>User documentation CD-ROM</li> <li>Video cable</li> </ul>
Packaging, weight	5.7 kg (12.6 lb.)
Packaging, size	630 × 190 × 370 mm (24.8 × 7.5 × 14.6 in.)
EAN-13	4743254001558
UPC-12	845188008932
Country of origin	Estonia

**Supplies & accessories:**

- 1196961; IR lens, f = 30 mm, 15° incl. case
- 1196960; IR lens, f = 10 mm, 45° incl. case
- T910814; Power supply, incl. multi plugs
- T911230ACC; Memory card SDHC 4 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- 1910582ACC; Video cable
- T911093; Tool belt
- T198125; Battery charger, incl. power supply with multi plugs (Exx, Kxx)
- T198113; IR lens, 76 mm (6°) with case and mounting support for Exx
- T198487; Li-Ion Battery pack 3.7V 17Wh
- T198484; Pouch for FLIR Exx series
- T198485; Sun shield
- T198341ACC; Transport case Exx
- T198486; Tripod Adapter
- 19250-100; IR Window 2 in.
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player



---

**P/N: 64501-0103**

© 2015, FLIR Systems, Inc.  
#64501-0103; r. 24597; en-US

- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade



**P/N: 64501-0114**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 64501-0114  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR Exx series cameras are compact and rugged infrared cameras that can be used in harsh environments while still providing you with the latest technology such as a modern touch screen and wireless connectivity. A FLIR Exx series camera is the perfect choice when you are looking for a robust but feature-rich camera at an affordable price.

### Benefits:

- **Robust and sophisticated:** The FLIR Exx series cameras have a robust and light-weight design and can withstand a 2 m drop. Large buttons combined with a modern touch screen and extensive measuring capabilities, they are the right choice for demanding inspections in the field.
- **Easy communication:** The Wi-Fi connectivity of the FLIR Exx series cameras allows you to connect to smart phones and tablets, for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image.
- **Best value for money:** The FLIR Exx series cameras combine good performance (up to 320 × 240 pixels), a user-friendly interface, and a rugged point-and-shoot design with an affordable price.

## Imaging and optical data

IR resolution	160 × 120 pixels
Thermal sensitivity/NETD	< 0.07°C @ +30°C (+86°F) / 70 mK
Field of view (FOV)	25° × 19°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
Spatial resolution (IFOV)	2.72 mrad
F-number	1.3
Image frequency	60 Hz
Focus	Manual
Digital zoom	2×
Panning	Panning over zoomed-in images

## Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm

## Image presentation

Display	Touch screen, 3.5 in. LCD, 320 × 240 pixels
Image adjustment	Auto or manual

P/N: 64501-0114

© 2015, FLIR Systems, Inc.  
#64501-0114; r. 24597; en-US

Image presentation modes	
Image modes	IR image, visual image, MSX, picture in picture, thumbnail gallery
Picture in Picture	IR area on visual image
Measurement	
Object temperature range	<ul style="list-style-type: none"> <li>–20°C to +120°C (–4°F to +248°F)</li> <li>0°C to +650°C (+32°F to +1202°F)</li> </ul>
Accuracy	±2°C (±3.6°F) or ±2% of reading, for ambient temperature 10°C to 35°C (+50°F to 95°F)
Measurement analysis	
Spotmeter	3
Area	3 boxes with max./min./average
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
External optics/windows correction	Automatic, based on inputs of optics/window transmission and temperature
Measurement corrections	Reflected temperature, optics transmission and atmospheric transmission
Set-up	
Color palettes	Arctic, Gray, Iron, Lava, Rainbow and Rainbow HC
Set-up commands	Local adaptation of units, language, date and time formats
Storage of images	
Image storage	Standard JPEG, including measurement data, on memory card
Image storage mode	Simultaneous storage of images in IR, visual and MSX
Image annotations	
Text	Text from predefined list or soft keyboard on touch screen
Report generation	<ul style="list-style-type: none"> <li>FLIR Tools software specifically designed to provide an easy way to create inspection reports. It is available on the major platforms – Android, Windows, MacOS, and iOS.</li> </ul>
Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card
Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB
Non-radiometric IR video streaming	Uncompressed colorized video using USB
Digital camera	
Built-in digital camera	3.1 Mpixels (2048 × 1536 pixels), and one LED light
Digital camera, focus	Fixed focus
Built-in digital lens data	FOV 53° × 41°
Digital camera, aspect ratio	4:3

P/N: 64501-0114

© 2015, FLIR Systems, Inc.  
#64501-0114; r. 24597; en-US

<b>Laser pointer</b>	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser
Laser power	1 mW
Laser wavelength	635 nm (red)
<b>Data communication interfaces</b>	
Wi-Fi	Peer-to-peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards
<b>USB</b>	
USB	<ul style="list-style-type: none"> <li>• USB-A: Connect external USB device</li> <li>• USB Mini-B: Data transfer to and from PC / uncompressed colorized video</li> </ul>
USB, standard	USB Mini-B: 2.0
USB, connector type	<ul style="list-style-type: none"> <li>• USB-A connector</li> <li>• USB Mini-B connector</li> </ul>
<b>Composite video</b>	
Video out	Composite
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC)
Video, connector type	4-pole 3.5 mm jack
<b>Power system</b>	
Battery type	Rechargeable Li ion battery
Battery voltage	3.7 V
Battery capacity	4.4 Ah, at +20°C to +25°C (+68°F to +77°F)
Battery operating time	Approx. 4 hours at +25°C (+77°F) ambient temperature and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	4 h to 90% capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
Power management	Automatic shutdown and sleep mode (user selectable)
AC operation	AC adapter, 90–260 VAC input, 12 V output to camera
Start-up time from sleep mode	Instant on
<b>Environmental data</b>	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none"> <li>• EN 61000-6-2 (Immunity)</li> <li>• EN 61000-6-3 (Emission)</li> <li>• FCC 47 CFR Part 15 B (Emission)</li> </ul>
Magnetic fields	EN 61 000-4-8, Test level 5 for continuous field (severe industrial environment)
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

**P/N: 64501-0114**

 © 2015, FLIR Systems, Inc.  
 #64501-0114; r. 24597; en-US

Environmental data	
Drop	2 m (6.6 ft.)
Safety	EN/UL/CSA/PSE 60950-1
Physical data	
Camera weight, incl. battery	0.869 kg (1.91 lb.)
Camera size (L × W × H)	246 × 97 × 184 mm (9.7 × 3.8 × 7.2 in.)
Tripod mounting	UNC ¼"-20 (adapter needed)
Material	<ul style="list-style-type: none"> <li>Polycarbonate + acrylonitrile butadiene styrene (PC-ABS)</li> <li>Thixomold magnesium</li> <li>Thermoplastic elastomer (TPE)</li> </ul>
Color	Graphite gray and black
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Hard transport case</li> <li>Infrared camera with lens</li> <li>Battery</li> <li>FLIR ResearchIR Standard 4</li> <li>Handstrap</li> <li>Memory card</li> <li>Power supply, incl. multi-plugs</li> <li>Printed documentation</li> <li>USB cable</li> <li>User documentation CD-ROM</li> <li>Video cable</li> </ul>
Packaging, weight	5.7 kg (12.6 lb.)
Packaging, size	630 × 190 × 370 mm (24.8 × 7.5 × 14.6 in.)
EAN-13	4743254002043
UPC-12	845188011208
Country of origin	Estonia

**Supplies & accessories:**

- 1196961; IR lens, f = 30 mm, 15° incl. case
- 1196960; IR lens, f = 10 mm, 45° incl. case
- T910814; Power supply, incl. multi plugs
- T911230ACC; Memory card SDHC 4 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- 1910582ACC; Video cable
- T911093; Tool belt
- T198125; Battery charger, incl. power supply with multi plugs (Exx, Kxx)
- T198113; IR lens, 76 mm (6°) with case and mounting support for Exx
- T198487; Li-Ion Battery pack 3.7V 17Wh
- T198484; Pouch for FLIR Exx series
- T198485; Sun shield
- T198341ACC; Transport case Exx
- T198486; Tripod Adapter
- 19250-100; IR Window 2 in.
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- T198697; FLIR ResearchIR Max + HSDR 4



---

**P/N: 64501-0114**

© 2015, FLIR Systems, Inc.  
#64501-0114; r. 24597; en-US

- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade

**P/N: 64501-0501**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 64501-0501  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR Exx series cameras are compact and rugged infrared cameras that can be used in harsh environments while still providing you with the latest technology such as a modern touch screen and wireless connectivity. A FLIR Exx series camera is the perfect choice when you are looking for a robust but feature-rich camera at an affordable price.

### Benefits:

- Robust and sophisticated: The FLIR Exx series cameras have a robust and light-weight design and can withstand a 2 m drop. Large buttons combined with a modern touch screen and extensive measuring capabilities, they are the right choice for demanding inspections in the field.
- Easy communication: The Wi-Fi connectivity of the FLIR Exx series cameras allows you to connect to smart phones and tablets, for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image.
- Best value for money: The FLIR Exx series cameras combine good performance (up to 320 × 240 pixels), a user-friendly interface, and a rugged point-and-shoot design with an affordable price.

## Imaging and optical data

IR resolution	160 × 120 pixels
Thermal sensitivity/NETD	< 0.045°C @ +30°C (+86°F) / 45 mK
Field of view (FOV)	25° × 19°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
Spatial resolution (IFOV)	2.72 mrad
F-number	1.3
Image frequency	60 Hz
Focus	Manual
Digital zoom	2×
Panning	Panning over zoomed-in images

## Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm

## Image presentation

Display	Touch screen, 3.5 in. LCD, 320 × 240 pixels
Image adjustment	Auto or manual

P/N: 64501-0501

© 2015, FLIR Systems, Inc.  
#64501-0501; r. 24597; en-US

<b>Image presentation modes</b>	
Image modes	IR image, visual image, MSX, picture in picture, thumbnail gallery
Picture in Picture	IR area on visual image
<b>Measurement</b>	
Object temperature range	–20°C to +120°C (–4°F to +248°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading, for ambient temperature 10°C to 35°C (+50°F to 95°F)
<b>Measurement analysis</b>	
Spotmeter	3
Area	3 boxes with max./min./average
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Difference temperature	Delta temperature between measurement functions or reference temperature
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Measurement corrections	Reflected temperature, optics transmission and atmospheric transmission
<b>Alarm</b>	
Humidity alarm	1 humidity alarm, including dew point alarm
Insulation alarm	1 insulation alarm
<b>Set-up</b>	
Color palettes	Arctic, Gray, Iron, Lava, Rainbow and Rainbow HC
Set-up commands	Local adaptation of units, language, date and time formats
<b>Storage of images</b>	
Image storage	Standard JPEG, including measurement data, on memory card
Image storage mode	Simultaneous storage of images in IR, visual and MSX
<b>Image annotations</b>	
Voice	60 seconds (via Bluetooth)
Text	Text from predefined list or soft keyboard on touch screen
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> <li>FLIR Tools software specifically designed to provide an easy way to create inspection reports. It is available on the major platforms – Android, Windows, MacOS, and iOS.</li> </ul>
<b>Video recording in camera</b>	
Non-radiometric IR video recording	MPEG-4 to memory card
<b>Video streaming</b>	
Radiometric IR video streaming	Full dynamic to PC using USB
Non-radiometric IR video streaming	Uncompressed colorized video using USB
<b>Digital camera</b>	
Built-in digital camera	3.1 Mpixels (2048 × 1536 pixels), and one LED light
Digital camera, focus	Fixed focus
Built-in digital lens data	FOV 53° × 41°
Digital camera, aspect ratio	4:3

**P/N: 64501-0501**

 © 2015, FLIR Systems, Inc.  
 #64501-0501; r. 24597; en-US

<b>Laser pointer</b>	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser
Laser power	1 mW
Laser wavelength	635 nm (red)
<b>Data communication interfaces</b>	
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards
Audio	Microphone headset via Bluetooth for voice annotation of images
<b>USB</b>	
USB	<ul style="list-style-type: none"> <li>• USB-A: Connect external USB device</li> <li>• USB Mini-B: Data transfer to and from PC / uncompressed colorized video</li> </ul>
USB, standard	USB Mini-B: 2.0
USB, connector type	<ul style="list-style-type: none"> <li>• USB-A connector</li> <li>• USB Mini-B connector</li> </ul>
<b>Composite video</b>	
Video out	Composite
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC)
Video, connector type	4-pole 3.5 mm jack
<b>Radio</b>	
Wi-Fi	<ul style="list-style-type: none"> <li>• Standard: 802.11 b/g</li> <li>• Frequency range: 2412–2462 MHz</li> <li>• Max. output power: 15 dBm</li> </ul>
Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal
<b>Power system</b>	
Battery type	Rechargeable Li ion battery
Battery voltage	3.7 V
Battery capacity	4.4 Ah, at +20°C to +25°C (+68°F to +77°F)
Battery operating time	Approx. 4 hours at +25°C (+77°F) ambient temperature and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	4 h to 90% capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
Power management	Automatic shutdown and sleep mode (user selectable)
AC operation	AC adapter, 90–260 VAC input, 12 V output to camera
Start-up time from sleep mode	Instant on
<b>Environmental data</b>	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles



**P/N: 64501-0501**

 © 2015, FLIR Systems, Inc.  
 #64501-0501; r. 24597; en-US

Environmental data	
EMC	<ul style="list-style-type: none"> <li>ETSI EN 301 489-1 (radio)</li> <li>ETSI EN 301 489-17</li> <li>EN 61000-6-2 (Immunity)</li> <li>EN 61000-6-3 (Emission)</li> <li>FCC 47 CFR Part 15 B (Emission)</li> <li>ICES-003</li> </ul>
Radio spectrum	<ul style="list-style-type: none"> <li>ETSI EN 300 328</li> <li>FCC Part 15.247</li> <li>RSS-210</li> </ul>
Magnetic fields	EN 61 000-4-8, Test level 5 for continuous field (severe industrial environment)
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Drop	2 m (6.6 ft.)
Safety	EN/UL/CSA/PSE 60950-1
Physical data	
Camera weight, incl. battery	0.869 kg (1.91 lb.)
Camera size (L x W x H)	246 x 97 x 184 mm (9.7 x 3.8 x 7.2 in.)
Tripod mounting	UNC ¼"-20 (adapter needed)
Material	<ul style="list-style-type: none"> <li>Polycarbonate + acrylonitrile butadiene styrene (PC-ABS)</li> <li>Thixomold magnesium</li> <li>Thermoplastic elastomer (TPE)</li> </ul>
Color	Graphite gray and black
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Hard transport case</li> <li>Infrared camera with lens</li> <li>Battery</li> <li>FLIR Tools download card</li> <li>Handstrap</li> <li>Memory card</li> <li>Power supply, incl. multi-plugs</li> <li>Printed documentation</li> <li>USB cable</li> <li>User documentation CD-ROM</li> <li>Video cable</li> </ul>
Packaging, weight	5.2 kg (11.5 lb.)
Packaging, size	500 x 190 x 370 mm (19.7 x 7.5 x 14.6 in.)
EAN-13	4743254001176
UPC-12	845188005207
Country of origin	Estonia

**Supplies & accessories:**

- 1196961; IR lens, f = 30 mm, 15° incl. case
- 1196960; IR lens, f = 10 mm, 45° incl. case
- T910814; Power supply, incl. multi plugs
- T911230ACC; Memory card SDHC 4 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- 1910582ACC; Video cable
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- T198125; Battery charger, incl. power supply with multi plugs (Exx, Kxx)
- T198113; IR lens, 76 mm (6°) with case and mounting support for Exx
- T198487; Li-Ion Battery pack 3.7V 17Wh

**P/N: 64501-0501**

© 2015, FLIR Systems, Inc.  
#64501-0501; r. 24597; en-US

- T198484; Pouch for FLIR Exx series
- T198485; Sun shield
- T198341ACC; Transport case Exx
- T198486; Tripod Adapter
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade

**P/N: 64502-1101**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 64502-1101  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR Exx series cameras are compact and rugged infrared cameras that can be used in harsh environments while still providing you with the latest technology such as a modern touch screen. A FLIR Exx series camera is the perfect choice when you are looking for a robust but feature-rich camera at an affordable price.

### Benefits:

- Robust and sophisticated: The FLIR Exx series cameras have a robust and light-weight design and can withstand a 2 m drop. Large buttons combined with a modern touch screen and extensive measuring capabilities, they are the right choice for demanding inspections in the field.
- Best value for money: The FLIR Exx series cameras combine good performance (up to 320 × 240 pixels), a user-friendly interface, and a rugged point-and-shoot design with an affordable price.

## Imaging and optical data

IR resolution	240 × 180 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	25° × 19°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
Spatial resolution (IFOV)	1.82 mrad
F-number	1.3
Image frequency	60 Hz
Focus	Manual
Digital zoom	2x and 4x
Panning	Panning over zoomed-in images

## Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 µm

## Image presentation

Display	Touch screen, 3.5 in. LCD, 320 × 240 pixels
Image adjustment	Auto or manual

## Image presentation modes

Image modes	IR image, visual image, MSX, picture in picture, thumbnail gallery
Picture in Picture	Scalable IR area on visual image

P/N: 64502-1101

© 2015, FLIR Systems, Inc.  
#64502-1101; r. 24597; en-US

Measurement	
Object temperature range	<ul style="list-style-type: none"> <li>–20°C to +120°C (–4°F to +248°F)</li> <li>0°C to +650°C (+32°F to +1202°F)</li> </ul>
Accuracy	±2°C (±3.6°F) or ±2% of reading, for ambient temperature 10°C to 35°C (+50°F to 95°F)
Measurement analysis	
Spotmeter	3
Area	3 boxes with max./min./average
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
External optics/windows correction	Automatic, based on inputs of optics/window transmission and temperature
Measurement corrections	Reflected temperature, optics transmission and atmospheric transmission
Set-up	
Color palettes	Arctic, Gray, Iron, Lava, Rainbow and Rainbow HC
Set-up commands	Local adaptation of units, language, date and time formats
Storage of images	
Image storage	Standard JPEG, including measurement data, on memory card
Image storage mode	Simultaneous storage of images in IR, visual and MSX
Image annotations	
Text	Text from predefined list or soft keyboard on touch screen
Report generation	<ul style="list-style-type: none"> <li>FLIR Tools software specifically designed to provide an easy way to create inspection reports. It is available on the major platforms – Android, Windows, MacOS, and iOS.</li> </ul>
Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card
Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB
Non-radiometric IR video streaming	Uncompressed colorized video using USB
Digital camera	
Built-in digital camera	3.1 Mpixels (2048 × 1536 pixels), and one LED light
Digital camera, focus	Fixed focus
Built-in digital lens data	FOV 53° × 41°
Digital camera, aspect ratio	4:3
Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser

P/N: 64502-1101

© 2015, FLIR Systems, Inc.  
#64502-1101; r. 24597; en-US

<b>Laser pointer</b>	
Laser power	1 mW
Laser wavelength	635 nm (red)
<b>Data communication interfaces</b>	
SD Card	One card slot for removable SD memory cards
<b>USB</b>	
USB	<ul style="list-style-type: none"> <li>USB-A: Connect external USB device</li> <li>USB Mini-B: Data transfer to and from PC / uncompressed colorized video</li> </ul>
USB, standard	USB Mini-B: 2.0
USB, connector type	<ul style="list-style-type: none"> <li>USB-A connector</li> <li>USB Mini-B connector</li> </ul>
<b>Composite video</b>	
Video out	Composite
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC)
Video, connector type	4-pole 3.5 mm jack
<b>Power system</b>	
Battery type	Rechargeable Li ion battery
Battery voltage	3.7 V
Battery capacity	4.4 Ah, at +20°C to +25°C (+68°F to +77°F)
Battery operating time	Approx. 4 hours at +25°C (+77°F) ambient temperature and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	4 h to 90% capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
Power management	Automatic shutdown and sleep mode (user selectable)
AC operation	AC adapter, 90–260 VAC input, 12 V output to camera
Start-up time from sleep mode	Instant on
<b>Environmental data</b>	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none"> <li>EN 61000-6-2 (Immunity)</li> <li>EN 61000-6-3 (Emission)</li> <li>FCC 47 CFR Part 15 B (Emission)</li> </ul>
Magnetic fields	EN 61 000-4-8, Test level 5 for continuous field (severe industrial environment)
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Drop	2 m (6.6 ft.)
Safety	EN/UL/CSA/PSE 60950-1
<b>Physical data</b>	
Camera weight, incl. battery	0.869 kg (1.91 lb.)
Camera size (L × W × H)	246 × 97 × 184 mm (9.7 × 3.8 × 7.2 in.)
Tripod mounting	UNC ¼"-20 (adapter needed)

P/N: 64502-1101

© 2015, FLIR Systems, Inc.  
#64502-1101; r. 24597; en-US

Physical data	
Material	<ul style="list-style-type: none"> <li>Polycarbonate + acrylonitrile butadiene styrene (PC-ABS)</li> <li>Thixomold magnesium</li> <li>Thermoplastic elastomer (TPE)</li> </ul>
Color	Graphite gray and black
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Hard transport case</li> <li>Infrared camera with lens</li> <li>Battery</li> <li>FLIR Tools download card</li> <li>Handstrap</li> <li>Memory card</li> <li>Power supply, incl. multi-plugs</li> <li>Printed documentation</li> <li>USB cable</li> <li>User documentation CD-ROM</li> <li>Video cable</li> </ul>
Packaging, weight	5.2 kg (11.5 lb.)
Packaging, size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in.)
EAN-13	4743254001237
UPC-12	845188005269
Country of origin	Estonia

#### Supplies & accessories:

- 1196961; IR lens, f = 30 mm, 15° incl. case
- 1196960; IR lens, f = 10 mm, 45° incl. case
- T910814; Power supply, incl. multi plugs
- T911230ACC; Memory card SDHC 4 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- 1910582ACC; Video cable
- T911093; Tool belt
- T198125; Battery charger, incl. power supply with multi plugs (Exx, Kxx)
- T198113; IR lens, 76 mm (6°) with case and mounting support for Exx
- T198487; Li-Ion Battery pack 3.7V 17Wh
- T198484; Pouch for FLIR Exx series
- T198485; Sun shield
- T198341ACC; Transport case Exx
- T198486; Tripod Adapter
- 19250-100; IR Window 2 in.
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4



---

**P/N: 64502-1101**

© 2015, FLIR Systems, Inc.

#64502-1101; r. 24597; en-US

- T199042; FLIR ResearchIR Standard 4 Upgrade

**P/N: 64501-0201**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 64501-0201  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR Exx series cameras are compact and rugged infrared cameras that can be used in harsh environments while still providing you with the latest technology such as a modern touch screen and wireless connectivity. A FLIR Exx series camera is the perfect choice when you are looking for a robust but feature-rich camera at an affordable price.

### Benefits:

- Robust and sophisticated: The FLIR Exx series cameras have a robust and light-weight design and can withstand a 2 m drop. Large buttons combined with a modern touch screen and extensive measuring capabilities, they are the right choice for demanding inspections in the field.
- Easy communication: The Wi-Fi connectivity of the FLIR Exx series cameras allows you to connect to smart phones and tablets, for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image.
- Best value for money: The FLIR Exx series cameras combine good performance (up to 320 × 240 pixels), a user-friendly interface, and a rugged point-and-shoot design with an affordable price.

## Imaging and optical data

IR resolution	240 × 180 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	25° × 19°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
Spatial resolution (IFOV)	1.82 mrad
F-number	1.3
Image frequency	60 Hz
Focus	Manual
Digital zoom	2x and 4x
Panning	Panning over zoomed-in images

## Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm

## Image presentation

Display	Touch screen, 3.5 in. LCD, 320 × 240 pixels
Image adjustment	Auto or manual



P/N: 64501-0201

© 2015, FLIR Systems, Inc.  
#64501-0201; r. 24597; en-US

Image presentation modes	
Image modes	IR image, visual image, MSX, picture in picture, thumbnail gallery
Picture in Picture	Scalable IR area on visual image
Measurement	
Object temperature range	<ul style="list-style-type: none"> <li>-20°C to +120°C (-4°F to +248°F)</li> <li>0°C to +650°C (+32°F to +1202°F)</li> </ul>
Accuracy	±2°C (±3.6°F) or ±2% of reading, for ambient temperature 10°C to 35°C (+50°F to 95°F)
Measurement analysis	
Spotmeter	3
Area	3 boxes with max./min./average
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
External optics/windows correction	Automatic, based on inputs of optics/window transmission and temperature
Measurement corrections	Reflected temperature, optics transmission and atmospheric transmission
Set-up	
Color palettes	Arctic, Gray, Iron, Lava, Rainbow and Rainbow HC
Set-up commands	Local adaptation of units, language, date and time formats
Storage of images	
Image storage	Standard JPEG, including measurement data, on memory card
Image storage mode	Simultaneous storage of images in IR, visual and MSX
Image annotations	
Voice	60 seconds (via Bluetooth)
Text	Text from predefined list or soft keyboard on touch screen
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> <li>FLIR Tools software specifically designed to provide an easy way to create inspection reports. It is available on the major platforms – Android, Windows, MacOS, and iOS.</li> </ul>
Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card
Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB
Non-radiometric IR video streaming	Uncompressed colorized video using USB
Digital camera	
Built-in digital camera	3.1 Mpixels (2048 × 1536 pixels), and one LED light
Digital camera, focus	Fixed focus

**P/N: 64501-0201**

 © 2015, FLIR Systems, Inc.  
 #64501-0201; r. 24597; en-US

<b>Digital camera</b>	
Built-in digital lens data	FOV 53° × 41°
Digital camera, aspect ratio	4:3
<b>Laser pointer</b>	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser
Laser power	1 mW
Laser wavelength	635 nm (red)
<b>Data communication interfaces</b>	
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards
Audio	Microphone headset via Bluetooth for voice annotation of images
<b>USB</b>	
USB	<ul style="list-style-type: none"> <li>• USB-A: Connect external USB device</li> <li>• USB Mini-B: Data transfer to and from PC / uncompressed colorized video</li> </ul>
USB, standard	USB Mini-B: 2.0
USB, connector type	<ul style="list-style-type: none"> <li>• USB-A connector</li> <li>• USB Mini-B connector</li> </ul>
<b>Composite video</b>	
Video out	Composite
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC)
Video, connector type	4-pole 3.5 mm jack
<b>Radio</b>	
Wi-Fi	<ul style="list-style-type: none"> <li>• Standard: 802.11 b/g</li> <li>• Frequency range: 2412–2462 MHz</li> <li>• Max. output power: 15 dBm</li> </ul>
Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal
<b>Power system</b>	
Battery type	Rechargeable Li ion battery
Battery voltage	3.7 V
Battery capacity	4.4 Ah, at +20°C to +25°C (+68°F to +77°F)
Battery operating time	Approx. 4 hours at +25°C (+77°F) ambient temperature and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	4 h to 90% capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
Power management	Automatic shutdown and sleep mode (user selectable)
AC operation	AC adapter, 90–260 VAC input, 12 V output to camera
Start-up time from sleep mode	Instant on

**P/N: 64501-0201**

© 2015, FLIR Systems, Inc.  
#64501-0201; r. 24597; en-US

<b>Environmental data</b>	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none"> <li>• ETSI EN 301 489-1 (radio)</li> <li>• ETSI EN 301 489-17</li> <li>• EN 61000-6-2 (Immunity)</li> <li>• EN 61000-6-3 (Emission)</li> <li>• FCC 47 CFR Part 15 B (Emission)</li> <li>• ICES-003</li> </ul>
Radio spectrum	<ul style="list-style-type: none"> <li>• ETSI EN 300 328</li> <li>• FCC Part 15.247</li> <li>• RSS-210</li> </ul>
Magnetic fields	EN 61 000-4-8, Test level 5 for continuous field (severe industrial environment)
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Drop	2 m (6.6 ft.)
Safety	EN/UL/CSA/PSE 60950-1

<b>Physical data</b>	
Camera weight, incl. battery	0.869 kg (1.91 lb.)
Camera size (L × W × H)	246 × 97 × 184 mm (9.7 × 3.8 × 7.2 in.)
Tripod mounting	UNC ¼"-20 (adapter needed)
Material	<ul style="list-style-type: none"> <li>• Polycarbonate + acrylonitrile butadiene styrene (PC-ABS)</li> <li>• Thixomold magnesium</li> <li>• Thermoplastic elastomer (TPE)</li> </ul>
Color	Graphite gray and black

<b>Shipping information</b>	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Hard transport case</li> <li>• Infrared camera with lens</li> <li>• Battery</li> <li>• FLIR Tools download card</li> <li>• Handstrap</li> <li>• Memory card</li> <li>• Power supply, incl. multi-plugs</li> <li>• Printed documentation</li> <li>• USB cable</li> <li>• User documentation CD-ROM</li> <li>• Video cable</li> </ul>
Packaging, weight	5.2 kg (11.5 lb.)
Packaging, size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in.)
EAN-13	4743254001145
UPC-12	845188005177
Country of origin	Estonia

**Supplies & accessories:**

- 1196961; IR lens, f = 30 mm, 15° incl. case
- 1196960; IR lens, f = 10 mm, 45° incl. case
- T910814; Power supply, incl. multi plugs
- T911230ACC; Memory card SDHC 4 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- 1910582ACC; Video cable

**P/N: 64501-0201**

© 2015, FLIR Systems, Inc.  
#64501-0201; r. 24597; en-US

- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- T198125; Battery charger, incl. power supply with multi plugs (Exx, Kxx)
- T198113; IR lens, 76 mm (6°) with case and mounting support for Exx
- T198487; Li-Ion Battery pack 3.7V 17Wh
- T198484; Pouch for FLIR Exx series
- T198485; Sun shield
- T198341ACC; Transport case Exx
- T198486; Tripod Adapter
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade

**P/N: 64501-0601**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 64501-0601  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR Exx series cameras are compact and rugged infrared cameras that can be used in harsh environments while still providing you with the latest technology such as a modern touch screen and wireless connectivity. A FLIR Exx series camera is the perfect choice when you are looking for a robust but feature-rich camera at an affordable price.

### Benefits:

- Robust and sophisticated: The FLIR Exx series cameras have a robust and light-weight design and can withstand a 2 m drop. Large buttons combined with a modern touch screen and extensive measuring capabilities, they are the right choice for demanding inspections in the field.
- Easy communication: The Wi-Fi connectivity of the FLIR Exx series cameras allows you to connect to smart phones and tablets, for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image.
- Best value for money: The FLIR Exx series cameras combine good performance (up to 320 × 240 pixels), a user-friendly interface, and a rugged point-and-shoot design with an affordable price.

## Imaging and optical data

IR resolution	240 × 180 pixels
Thermal sensitivity/NETD	< 0.045°C @ +30°C (+86°F) / 45 mK
Field of view (FOV)	25° × 19°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
Spatial resolution (IFOV)	1.82 mrad
F-number	1.3
Image frequency	60 Hz
Focus	Manual
Digital zoom	2x and 4x
Panning	Panning over zoomed-in images

## Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm

## Image presentation

Display	Touch screen, 3.5 in. LCD, 320 × 240 pixels
Image adjustment	Auto or manual

P/N: 64501-0601

© 2015, FLIR Systems, Inc.  
#64501-0601; r. 24597; en-US

Image presentation modes	
Image modes	IR image, visual image, MSX, picture in picture, thumbnail gallery
Picture in Picture	Scalable IR area on visual image
Measurement	
Object temperature range	–20°C to +120°C (–4°F to +248°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading, for ambient temperature 10°C to 35°C (+50°F to 95°F)
Measurement analysis	
Spotmeter	3
Area	3 boxes with max./min./average
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Measurement corrections	Reflected temperature, optics transmission and atmospheric transmission
Alarm	
Humidity alarm	1 humidity alarm, including dew point alarm
Insulation alarm	1 insulation alarm
Set-up	
Color palettes	Arctic, Gray, Iron, Lava, Rainbow and Rainbow HC
Set-up commands	Local adaptation of units, language, date and time formats
Storage of images	
Image storage	Standard JPEG, including measurement data, on memory card
Image storage mode	Simultaneous storage of images in IR, visual and MSX
Image annotations	
Voice	60 seconds (via Bluetooth)
Text	Text from predefined list or soft keyboard on touch screen
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> <li>FLIR Tools software specifically designed to provide an easy way to create inspection reports. It is available on the major platforms – Android, Windows, MacOS, and iOS.</li> </ul>
Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card
Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB
Non-radiometric IR video streaming	Uncompressed colorized video using USB
Digital camera	
Built-in digital camera	3.1 Mpixels (2048 × 1536 pixels), and one LED light
Digital camera, focus	Fixed focus

**P/N: 64501-0601**

 © 2015, FLIR Systems, Inc.  
 #64501-0601; r. 24597; en-US

<b>Digital camera</b>	
Built-in digital lens data	FOV 53° × 41°
Digital camera, aspect ratio	4:3
<b>Laser pointer</b>	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser
Laser power	1 mW
Laser wavelength	635 nm (red)
<b>Data communication interfaces</b>	
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards
Audio	Microphone headset via Bluetooth for voice annotation of images
<b>USB</b>	
USB	<ul style="list-style-type: none"> <li>• USB-A: Connect external USB device</li> <li>• USB Mini-B: Data transfer to and from PC / uncompressed colorized video</li> </ul>
USB, standard	USB Mini-B: 2.0
USB, connector type	<ul style="list-style-type: none"> <li>• USB-A connector</li> <li>• USB Mini-B connector</li> </ul>
<b>Composite video</b>	
Video out	Composite
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC)
Video, connector type	4-pole 3.5 mm jack
<b>Radio</b>	
Wi-Fi	<ul style="list-style-type: none"> <li>• Standard: 802.11 b/g</li> <li>• Frequency range: 2412–2462 MHz</li> <li>• Max. output power: 15 dBm</li> </ul>
Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal
<b>Power system</b>	
Battery type	Rechargeable Li ion battery
Battery voltage	3.7 V
Battery capacity	4.4 Ah, at +20°C to +25°C (+68°F to +77°F)
Battery operating time	Approx. 4 hours at +25°C (+77°F) ambient temperature and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	4 h to 90% capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
Power management	Automatic shutdown and sleep mode (user selectable)
AC operation	AC adapter, 90–260 VAC input, 12 V output to camera
Start-up time from sleep mode	Instant on

**P/N: 64501-0601**

© 2015, FLIR Systems, Inc.  
#64501-0601; r. 24597; en-US

<b>Environmental data</b>	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none"> <li>• ETSI EN 301 489-1 (radio)</li> <li>• ETSI EN 301 489-17</li> <li>• EN 61000-6-2 (Immunity)</li> <li>• EN 61000-6-3 (Emission)</li> <li>• FCC 47 CFR Part 15 B (Emission)</li> <li>• ICES-003</li> </ul>
Radio spectrum	<ul style="list-style-type: none"> <li>• ETSI EN 300 328</li> <li>• FCC Part 15.247</li> <li>• RSS-210</li> </ul>
Magnetic fields	EN 61 000-4-8, Test level 5 for continuous field (severe industrial environment)
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Drop	2 m (6.6 ft.)
Safety	EN/UL/CSA/PSE 60950-1

<b>Physical data</b>	
Camera weight, incl. battery	0.869 kg (1.91 lb.)
Camera size (L × W × H)	246 × 97 × 184 mm (9.7 × 3.8 × 7.2 in.)
Tripod mounting	UNC ¼"-20 (adapter needed)
Material	<ul style="list-style-type: none"> <li>• Polycarbonate + acrylonitrile butadiene styrene (PC-ABS)</li> <li>• Thixomold magnesium</li> <li>• Thermoplastic elastomer (TPE)</li> </ul>
Color	Graphite gray and black

<b>Shipping information</b>	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Hard transport case</li> <li>• Infrared camera with lens</li> <li>• Battery</li> <li>• FLIR Tools download card</li> <li>• Handstrap</li> <li>• Memory card</li> <li>• Power supply, incl. multi-plugs</li> <li>• Printed documentation</li> <li>• USB cable</li> <li>• User documentation CD-ROM</li> <li>• Video cable</li> </ul>
Packaging, weight	5.2 kg (11.5 lb.)
Packaging, size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in.)
EAN-13	4743254001183
UPC-12	845188005214
Country of origin	Estonia

**Supplies & accessories:**

- 1196961; IR lens, f = 30 mm, 15° incl. case
- 1196960; IR lens, f = 10 mm, 45° incl. case
- T910814; Power supply, incl. multi plugs
- T911230ACC; Memory card SDHC 4 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- 1910582ACC; Video cable



**P/N: 64501-0601**

© 2015, FLIR Systems, Inc.  
#64501-0601; r. 24597; en-US

- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- T198125; Battery charger, incl. power supply with multi plugs (Exx, Kxx)
- T198113; IR lens, 76 mm (6°) with case and mounting support for Exx
- T198487; Li-Ion Battery pack 3.7V 17Wh
- T198484; Pouch for FLIR Exx series
- T198485; Sun shield
- T198341ACC; Transport case Exx
- T198486; Tripod Adapter
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade

**P/N: 64502-1202**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 64502-1202  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR Exx series cameras are compact and rugged infrared cameras that can be used in harsh environments while still providing you with the latest technology such as a modern touch screen. A FLIR Exx series camera is the perfect choice when you are looking for a robust but feature-rich camera at an affordable price.

### Benefits:

- Robust and sophisticated: The FLIR Exx series cameras have a robust and light-weight design and can withstand a 2 m drop. Large buttons combined with a modern touch screen and extensive measuring capabilities, they are the right choice for demanding inspections in the field.
- Best value for money: The FLIR Exx series cameras combine good performance (up to 320 × 240 pixels), a user-friendly interface, and a rugged point-and-shoot design with an affordable price.

## Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	25° × 19°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
Spatial resolution (IFOV)	1.36 mrad
F-number	1.3
Image frequency	60 Hz
Focus	Manual
Digital zoom	2x and 4x
Panning	Panning over zoomed-in images

## Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 µm

## Image presentation

Display	Touch screen, 3.5 in. LCD, 320 × 240 pixels
Image adjustment	Auto or manual

## Image presentation modes

Image modes	IR image, visual image, MSX, picture in picture, thumbnail gallery
Picture in Picture	Scalable IR area on visual image

**P/N: 64502-1202**

© 2015, FLIR Systems, Inc.  
#64502-1202; r. 24597; en-US

Measurement	
Object temperature range	<ul style="list-style-type: none"> <li>–20°C to +120°C (–4°F to +248°F)</li> <li>0°C to +650°C (+32°F to +1202°F)</li> </ul>
Accuracy	±2°C (±3.6°F) or ±2% of reading, for ambient temperature 10°C to 35°C (+50°F to 95°F)
Measurement analysis	
Spotmeter	3
Area	3 boxes with max./min./average
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
External optics/windows correction	Automatic, based on inputs of optics/window transmission and temperature
Measurement corrections	Reflected temperature, optics transmission and atmospheric transmission
Set-up	
Color palettes	Arctic, Gray, Iron, Lava, Rainbow and Rainbow HC
Set-up commands	Local adaptation of units, language, date and time formats
Storage of images	
Image storage	Standard JPEG, including measurement data, on memory card
Image storage mode	Simultaneous storage of images in IR, visual and MSX
Image annotations	
Text	Text from predefined list or soft keyboard on touch screen
Report generation	<ul style="list-style-type: none"> <li>FLIR Tools software specifically designed to provide an easy way to create inspection reports. It is available on the major platforms – Android, Windows, MacOS, and iOS.</li> </ul>
Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card
Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB
Non-radiometric IR video streaming	Uncompressed colorized video using USB
Digital camera	
Built-in digital camera	3.1 Mpixels (2048 × 1536 pixels), and one LED light
Digital camera, focus	Fixed focus
Built-in digital lens data	FOV 53° × 41°
Digital camera, aspect ratio	4:3
Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser

**P/N: 64502-1202**

© 2015, FLIR Systems, Inc.  
#64502-1202; r. 24597; en-US

<b>Laser pointer</b>	
Laser power	1 mW
Laser wavelength	635 nm (red)
<b>Data communication interfaces</b>	
SD Card	One card slot for removable SD memory cards
<b>USB</b>	
USB	<ul style="list-style-type: none"> <li>USB-A: Connect external USB device</li> <li>USB Mini-B: Data transfer to and from PC / uncompressed colorized video</li> </ul>
USB, standard	USB Mini-B: 2.0
USB, connector type	<ul style="list-style-type: none"> <li>USB-A connector</li> <li>USB Mini-B connector</li> </ul>
<b>Composite video</b>	
Video out	Composite
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC)
Video, connector type	4-pole 3.5 mm jack
<b>Power system</b>	
Battery type	Rechargeable Li ion battery
Battery voltage	3.7 V
Battery capacity	4.4 Ah, at +20°C to +25°C (+68°F to +77°F)
Battery operating time	Approx. 4 hours at +25°C (+77°F) ambient temperature and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	4 h to 90% capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
Power management	Automatic shutdown and sleep mode (user selectable)
AC operation	AC adapter, 90–260 VAC input, 12 V output to camera
Start-up time from sleep mode	Instant on
<b>Environmental data</b>	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none"> <li>EN 61000-6-2 (Immunity)</li> <li>EN 61000-6-3 (Emission)</li> <li>FCC 47 CFR Part 15 B (Emission)</li> </ul>
Magnetic fields	EN 61 000-4-8, Test level 5 for continuous field (severe industrial environment)
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Drop	2 m (6.6 ft.)
Safety	EN/UL/CSA/PSE 60950-1
<b>Physical data</b>	
Camera weight, incl. battery	0.869 kg (1.91 lb.)
Camera size (L × W × H)	246 × 97 × 184 mm (9.7 × 3.8 × 7.2 in.)
Tripod mounting	UNC ¼"-20 (adapter needed)

**P/N: 64502-1202**

 © 2015, FLIR Systems, Inc.  
 #64502-1202; r. 24597; en-US

Physical data	
Material	<ul style="list-style-type: none"> <li>Polycarbonate + acrylonitrile butadiene styrene (PC-ABS)</li> <li>Thixomold magnesium</li> <li>Thermoplastic elastomer (TPE)</li> </ul>
Color	Graphite gray and black
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Hard transport case</li> <li>Infrared camera with lens</li> <li>Battery (2 ea.)</li> <li>Battery charger</li> <li>FLIR Tools download card</li> <li>Handstrap</li> <li>Memory card</li> <li>Power supply, incl. multi-plugs</li> <li>Printed documentation</li> <li>USB cable</li> <li>User documentation CD-ROM</li> <li>Video cable</li> </ul>
Packaging, weight	5.5 kg (12.1 lb.)
Packaging, size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in.)
EAN-13	4743254001244
UPC-12	845188005276
Country of origin	Estonia

**Supplies & accessories:**

- 1196961; IR lens, f = 30 mm, 15° incl. case
- 1196960; IR lens, f = 10 mm, 45° incl. case
- T910814; Power supply, incl. multi plugs
- T911230ACC; Memory card SDHC 4 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- 1910582ACC; Video cable
- T911093; Tool belt
- T198125; Battery charger, incl. power supply with multi plugs (Exx, Kxx)
- T198113; IR lens, 76 mm (6°) with case and mounting support for Exx
- T198487; Li-Ion Battery pack 3.7V 17Wh
- T198484; Pouch for FLIR Exx series
- T198485; Sun shield
- T198341ACC; Transport case Exx
- T198486; Tripod Adapter
- 19250-100; IR Window 2 in.
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4



---

**P/N: 64502-1202**

© 2015, FLIR Systems, Inc.  
#64502-1202; r. 24597; en-US

- T199042; FLIR ResearchIR Standard 4 Upgrade

**P/N: 64501-0302**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 64501-0302  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR Exx series cameras are compact and rugged infrared cameras that can be used in harsh environments while still providing you with the latest technology such as a modern touch screen and wireless connectivity. A FLIR Exx series camera is the perfect choice when you are looking for a robust but feature-rich camera at an affordable price.

### Benefits:

- Robust and sophisticated: The FLIR Exx series cameras have a robust and light-weight design and can withstand a 2 m drop. Large buttons combined with a modern touch screen and extensive measuring capabilities, they are the right choice for demanding inspections in the field.
- Easy communication: The Wi-Fi connectivity of the FLIR Exx series cameras allows you to connect to smart phones and tablets, for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image.
- Best value for money: The FLIR Exx series cameras combine good performance (up to 320 × 240 pixels), a user-friendly interface, and a rugged point-and-shoot design with an affordable price.

## Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	25° × 19°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
Spatial resolution (IFOV)	1.36 mrad
F-number	1.3
Image frequency	60 Hz
Focus	Manual
Digital zoom	2x and 4x
Panning	Panning over zoomed-in images

## Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 µm

## Image presentation

Display	Touch screen, 3.5 in. LCD, 320 × 240 pixels
Image adjustment	Auto or manual

P/N: 64501-0302

© 2015, FLIR Systems, Inc.  
#64501-0302; r. 24597; en-US

Image presentation modes	
Image modes	IR image, visual image, MSX, picture in picture, thumbnail gallery
Picture in Picture	Scalable IR area on visual image
Measurement	
Object temperature range	<ul style="list-style-type: none"> <li>-20°C to +120°C (-4°F to +248°F)</li> <li>0°C to +650°C (+32°F to +1202°F)</li> </ul>
Accuracy	±2°C (±3.6°F) or ±2% of reading, for ambient temperature 10°C to 35°C (+50°F to 95°F)
Measurement analysis	
Spotmeter	3
Area	3 boxes with max./min./average
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
External optics/windows correction	Automatic, based on inputs of optics/window transmission and temperature
Measurement corrections	Reflected temperature, optics transmission and atmospheric transmission
Set-up	
Color palettes	Arctic, Gray, Iron, Lava, Rainbow and Rainbow HC
Set-up commands	Local adaptation of units, language, date and time formats
Storage of images	
Image storage	Standard JPEG, including measurement data, on memory card
Image storage mode	Simultaneous storage of images in IR, visual and MSX
Image annotations	
Voice	60 seconds (via Bluetooth)
Text	Text from predefined list or soft keyboard on touch screen
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> <li>FLIR Tools software specifically designed to provide an easy way to create inspection reports. It is available on the major platforms – Android, Windows, MacOS, and iOS.</li> </ul>
Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card
Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB
Non-radiometric IR video streaming	Uncompressed colorized video using USB
Digital camera	
Built-in digital camera	3.1 Mpixels (2048 × 1536 pixels), and one LED light
Digital camera, focus	Fixed focus



**P/N: 64501-0302**

 © 2015, FLIR Systems, Inc.  
 #64501-0302; r. 24597; en-US

<b>Digital camera</b>	
Built-in digital lens data	FOV 53° × 41°
Digital camera, aspect ratio	4:3
<b>Laser pointer</b>	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser
Laser power	1 mW
Laser wavelength	635 nm (red)
<b>Data communication interfaces</b>	
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards
Audio	Microphone headset via Bluetooth for voice annotation of images
<b>USB</b>	
USB	<ul style="list-style-type: none"> <li>• USB-A: Connect external USB device</li> <li>• USB Mini-B: Data transfer to and from PC / uncompressed colorized video</li> </ul>
USB, standard	USB Mini-B: 2.0
USB, connector type	<ul style="list-style-type: none"> <li>• USB-A connector</li> <li>• USB Mini-B connector</li> </ul>
<b>Composite video</b>	
Video out	Composite
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC)
Video, connector type	4-pole 3.5 mm jack
<b>Radio</b>	
Wi-Fi	<ul style="list-style-type: none"> <li>• Standard: 802.11 b/g</li> <li>• Frequency range: 2412–2462 MHz</li> <li>• Max. output power: 15 dBm</li> </ul>
Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal
<b>Power system</b>	
Battery type	Rechargeable Li ion battery
Battery voltage	3.7 V
Battery capacity	4.4 Ah, at +20°C to +25°C (+68°F to +77°F)
Battery operating time	Approx. 4 hours at +25°C (+77°F) ambient temperature and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	4 h to 90% capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
Power management	Automatic shutdown and sleep mode (user selectable)
AC operation	AC adapter, 90–260 VAC input, 12 V output to camera
Start-up time from sleep mode	Instant on

**P/N: 64501-0302**

© 2015, FLIR Systems, Inc.  
#64501-0302; r. 24597; en-US

<b>Environmental data</b>	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none"> <li>• ETSI EN 301 489-1 (radio)</li> <li>• ETSI EN 301 489-17</li> <li>• EN 61000-6-2 (Immunity)</li> <li>• EN 61000-6-3 (Emission)</li> <li>• FCC 47 CFR Part 15 B (Emission)</li> <li>• ICES-003</li> </ul>
Radio spectrum	<ul style="list-style-type: none"> <li>• ETSI EN 300 328</li> <li>• FCC Part 15.247</li> <li>• RSS-210</li> </ul>
Magnetic fields	EN 61 000-4-8, Test level 5 for continuous field (severe industrial environment)
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Drop	2 m (6.6 ft.)
Safety	EN/UL/CSA/PSE 60950-1

<b>Physical data</b>	
Camera weight, incl. battery	0.869 kg (1.91 lb.)
Camera size (L x W x H)	246 x 97 x 184 mm (9.7 x 3.8 x 7.2 in.)
Tripod mounting	UNC ¼"-20 (adapter needed)
Material	<ul style="list-style-type: none"> <li>• Polycarbonate + acrylonitrile butadiene styrene (PC-ABS)</li> <li>• Thixomold magnesium</li> <li>• Thermoplastic elastomer (TPE)</li> </ul>
Color	Graphite gray and black

<b>Shipping information</b>	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Hard transport case</li> <li>• Infrared camera with lens</li> <li>• Battery (2 ea.)</li> <li>• Battery charger</li> <li>• FLIR Tools download card</li> <li>• Handstrap</li> <li>• Memory card</li> <li>• Power supply, incl. multi-plugs</li> <li>• Printed documentation</li> <li>• USB cable</li> <li>• User documentation CD-ROM</li> <li>• Video cable</li> </ul>
Packaging, weight	5.5 kg (12.1 lb.)
Packaging, size	500 x 190 x 370 mm (19.7 x 7.5 x 14.6 in.)
EAN-13	4743254001152
UPC-12	845188005184
Country of origin	Estonia

**Supplies & accessories:**

- 1196961; IR lens, f = 30 mm, 15° incl. case
- 1196960; IR lens, f = 10 mm, 45° incl. case
- T910814; Power supply, incl. multi plugs
- T911230ACC; Memory card SDHC 4 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.

**P/N: 64501-0302**

© 2015, FLIR Systems, Inc.  
#64501-0302; r. 24597; en-US

- 1910582ACC; Video cable
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- T198125; Battery charger, incl. power supply with multi plugs (Exx, Kxx)
- T198113; IR lens, 76 mm (6°) with case and mounting support for Exx
- T198487; Li-Ion Battery pack 3.7V 17Wh
- T198484; Pouch for FLIR Exx series
- T198485; Sun shield
- T198341ACC; Transport case Exx
- T198486; Tripod Adapter
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade

**P/N: 64501-0702**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 64501-0702  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR Exx series cameras are compact and rugged infrared cameras that can be used in harsh environments while still providing you with the latest technology such as a modern touch screen and wireless connectivity. A FLIR Exx series camera is the perfect choice when you are looking for a robust but feature-rich camera at an affordable price.

### Benefits:

- Robust and sophisticated: The FLIR Exx series cameras have a robust and light-weight design and can withstand a 2 m drop. Large buttons combined with a modern touch screen and extensive measuring capabilities, they are the right choice for demanding inspections in the field.
- Easy communication: The Wi-Fi connectivity of the FLIR Exx series cameras allows you to connect to smart phones and tablets, for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image.
- Best value for money: The FLIR Exx series cameras combine good performance (up to 320 × 240 pixels), a user-friendly interface, and a rugged point-and-shoot design with an affordable price.

## Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	<0.045°C @ +30°C (+86°F) / 45 mK
Field of view (FOV)	25° × 19°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
Spatial resolution (IFOV)	1.36 mrad
F-number	1.3
Image frequency	60 Hz
Focus	Manual
Digital zoom	2x and 4x
Panning	Panning over zoomed-in images

## Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 µm

## Image presentation

Display	Touch screen, 3.5 in. LCD, 320 × 240 pixels
Image adjustment	Auto or manual

P/N: 64501-0702

© 2015, FLIR Systems, Inc.  
#64501-0702; r. 24597; en-US

Image presentation modes	
Image modes	IR image, visual image, MSX, picture in picture, thumbnail gallery
Picture in Picture	Scalable IR area on visual image
Measurement	
Object temperature range	–20°C to +120°C (–4°F to +248°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading, for ambient temperature 10°C to 35°C (+50°F to 95°F)
Measurement analysis	
Spotmeter	3
Area	3 boxes with max./min./average
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Measurement corrections	Reflected temperature, optics transmission and atmospheric transmission
Alarm	
Humidity alarm	1 humidity alarm, including dew point alarm
Insulation alarm	1 insulation alarm
Set-up	
Color palettes	Arctic, Gray, Iron, Lava, Rainbow and Rainbow HC
Set-up commands	Local adaptation of units, language, date and time formats
Storage of images	
Image storage	Standard JPEG, including measurement data, on memory card
Image storage mode	Simultaneous storage of images in IR, visual and MSX
Image annotations	
Voice	60 seconds (via Bluetooth)
Text	Text from predefined list or soft keyboard on touch screen
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> <li>FLIR Tools software specifically designed to provide an easy way to create inspection reports. It is available on the major platforms – Android, Windows, MacOS, and iOS.</li> </ul>
Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card
Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB
Non-radiometric IR video streaming	Uncompressed colorized video using USB
Digital camera	
Built-in digital camera	3.1 Mpixels (2048 × 1536 pixels), and one LED light
Digital camera, focus	Fixed focus

**P/N: 64501-0702**

 © 2015, FLIR Systems, Inc.  
 #64501-0702; r. 24597; en-US

<b>Digital camera</b>	
Built-in digital lens data	FOV 53° × 41°
Digital camera, aspect ratio	4:3
<b>Laser pointer</b>	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser
Laser power	1 mW
Laser wavelength	635 nm (red)
<b>Data communication interfaces</b>	
Wi-Fi	Peer-to-peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards
Audio	Microphone headset via Bluetooth for voice annotation of images
<b>USB</b>	
USB	<ul style="list-style-type: none"> <li>• USB-A: Connect external USB device</li> <li>• USB Mini-B: Data transfer to and from PC / uncompressed colorized video</li> </ul>
USB, standard	USB Mini-B: 2.0
USB, connector type	<ul style="list-style-type: none"> <li>• USB-A connector</li> <li>• USB Mini-B connector</li> </ul>
<b>Composite video</b>	
Video out	Composite
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC)
Video, connector type	4-pole 3.5 mm jack
<b>Radio</b>	
Wi-Fi	Standard: 802.11 b/g Frequency range: 2412–2462 MHz Max. output power: 15 dBm
Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal
<b>Power system</b>	
Battery type	Rechargeable Li ion battery
Battery voltage	3.7 V
Battery capacity	4.4 Ah, at +20°C to +25°C (+68°F to +77°F)
Battery operating time	Approx. 4 hours at +25°C (+77°F) ambient temperature and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	4 hours to 90% capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
Power management	Automatic shutdown and sleep mode (user selectable)
AC operation	AC adapter, 90–260 VAC input, 12 V output to camera
Start-up time from sleep mode	Instant on

**P/N: 64501-0702**

© 2015, FLIR Systems, Inc.  
#64501-0702; r. 24597; en-US

<b>Environmental data</b>	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none"> <li>• ETSI EN 301 489-1 (radio)</li> <li>• ETSI EN 301 489-17</li> <li>• EN 61000-6-2 (Immunity)</li> <li>• EN 61000-6-3 (Emission)</li> <li>• FCC 47 CFR Part 15 B (Emission)</li> <li>• ICES-003</li> </ul>
Radio spectrum	<ul style="list-style-type: none"> <li>• ETSI EN 300 328</li> <li>• FCC Part 15.247</li> <li>• RSS-210</li> </ul>
Magnetic fields	EN 61 000-4-8, Test level 5 for continuous field (severe industrial environment)
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Drop	2 m (6.6 ft.)
Safety	EN/UL/CSA/PSE 60950-1

<b>Physical data</b>	
Camera weight, incl. battery	0.869 kg (1.91 lb.)
Camera size (L x W x H)	246 x 97 x 184 mm (9.7 x 3.8 x 7.2 in.)
Tripod mounting	UNC ¼"-20 (adapter needed)
Material	<ul style="list-style-type: none"> <li>• Polycarbonate + acrylonitrile butadiene styrene (PC-ABS)</li> <li>• Thixomold magnesium</li> <li>• Thermoplastic elastomer (TPE)</li> </ul>
Color	Graphite gray and black

<b>Shipping information</b>	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Hard transport case</li> <li>• Infrared camera with lens</li> <li>• Battery (2 ea.)</li> <li>• Battery charger</li> <li>• FLIR Tools download card</li> <li>• Handstrap</li> <li>• Memory card</li> <li>• Power supply, incl. multi-plugs</li> <li>• Printed documentation</li> <li>• USB cable</li> <li>• User documentation CD-ROM</li> <li>• Video cable</li> </ul>
Packaging, weight	5.5 kg (12.1 lb.)
Packaging, size	500 x 190 x 370 mm (19.7 x 7.5 x 14.6 in.)
EAN-13	4743254001190
UPC-12	845188005221
Country of origin	Estonia

**Supplies & accessories:**

- 1196961; IR lens, f = 30 mm, 15° incl. case
- 1196960; IR lens, f = 10 mm, 45° incl. case
- T910814; Power supply, incl. multi plugs
- T911230ACC; Memory card SDHC 4 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.

**P/N: 64501-0702**

© 2015, FLIR Systems, Inc.  
#64501-0702; r. 24597; en-US

- 1910582ACC; Video cable
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- T198125; Battery charger, incl. power supply with multi plugs (Exx, Kxx)
- T198113; IR lens, 76 mm (6°) with case and mounting support for Exx
- T198487; Li-Ion Battery pack 3.7V 17Wh
- T198484; Pouch for FLIR Exx series
- T198485; Sun shield
- T198341ACC; Transport case Exx
- T198486; Tripod Adapter
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade



**P/N: 64501-0402**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 64501-0402  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR Exx series cameras are compact and rugged infrared cameras that can be used in harsh environments while still providing you with the latest technology such as a modern touch screen and wireless connectivity. A FLIR Exx series camera is the perfect choice when you are looking for a robust but feature-rich camera at an affordable price.

### Benefits:

- Robust and sophisticated: The FLIR Exx series cameras have a robust and light-weight design and can withstand a 2 m drop. Large buttons combined with a modern touch screen and extensive measuring capabilities, they are the right choice for demanding inspections in the field.
- Easy communication: The Wi-Fi connectivity of the FLIR Exx series cameras allows you to connect to smart phones and tablets, for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image.
- Best value for money: The FLIR Exx series cameras combine good performance (up to 320 × 240 pixels), a user-friendly interface, and a rugged point-and-shoot design with an affordable price.

## Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	25° × 19°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
Spatial resolution (IFOV)	1.36 mrad
F-number	1.3
Image frequency	60 Hz
Focus	Manual
Digital zoom	2x and 4x
Panning	Panning over zoomed-in images

## Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 µm

## Image presentation

Display	Touch screen, 3.5 in. LCD, 320 × 240 pixels
Image adjustment	Auto or manual

P/N: 64501-0402

© 2015, FLIR Systems, Inc.  
#64501-0402; r. 24597; en-US

Image presentation modes	
Image modes	IR image, visual image, MSX, picture in picture, thumbnail gallery
Picture in Picture	Scalable IR area on visual image
Measurement	
Object temperature range	<ul style="list-style-type: none"> <li>–20°C to +120°C (–4°F to +248°F)</li> <li>0°C to +650°C (+32°F to +1202°F)</li> </ul>
Accuracy	±2°C (±3.6°F) or ±2% of reading, for ambient temperature 10°C to 35°C (+50°F to 95°F)
Measurement analysis	
Spotmeter	5
Area	3 boxes with max./min.
Automatic hot/cold detection	Auto hot spotmeter marker within area
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
External optics/windows correction	Automatic, based on inputs of optics/window transmission and temperature
Measurement corrections	Reflected temperature, optics transmission and atmospheric transmission
Set-up	
Color palettes	Arctic, Gray, Iron, Lava, Rainbow and Rainbow HC
Set-up commands	Local adaptation of units, language, date and time formats
Storage of images	
Image storage	Standard JPEG, including measurement data, on memory card
Image storage mode	Simultaneous storage of images in IR, visual and MSX
Image annotations	
Voice	60 seconds (via Bluetooth)
Text	Text from soft keyboard on touch screen
METERLINK	Wireless connection (Bluetooth) to: Extech Moisture Meter MO297 Extech Clamp Meter EX845
Report generation	<ul style="list-style-type: none"> <li>FLIR Tools software specifically designed to provide an easy way to create inspection reports. It is available on the major platforms – Android, Windows, MacOS, and iOS.</li> </ul>
Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card
Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB
Non-radiometric IR video streaming	Uncompressed colorized video using USB
Digital camera	
Built-in digital camera	3.1 Mpixels (2048 × 1536 pixels), and one LED light
Digital camera, focus	Fixed focus

**P/N: 64501-0402**

 © 2015, FLIR Systems, Inc.  
 #64501-0402; r. 24597; en-US

<b>Digital camera</b>	
Built-in digital lens data	FOV 53° × 41°
Digital camera, aspect ratio	4:3
<b>Laser pointer</b>	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser
Laser power	1 mW
Laser wavelength	635 nm (red)
<b>Data communication interfaces</b>	
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards
Audio	Microphone headset via Bluetooth for voice annotation of images
<b>USB</b>	
USB	<ul style="list-style-type: none"> <li>• USB-A: Connect external USB device</li> <li>• USB Mini-B: Data transfer to and from PC / uncompressed colorized video</li> </ul>
USB, standard	USB Mini-B: 2.0
USB, connector type	<ul style="list-style-type: none"> <li>• USB-A connector</li> <li>• USB Mini-B connector</li> </ul>
<b>Composite video</b>	
Video out	Composite
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC)
Video, connector type	4-pole 3.5 mm jack
<b>Radio</b>	
Wi-Fi	<ul style="list-style-type: none"> <li>• Standard: 802.11 b/g</li> <li>• Frequency range: 2412–2462 MHz</li> <li>• Max. output power: 15 dBm</li> </ul>
Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal
<b>Power system</b>	
Battery type	Rechargeable Li ion battery
Battery voltage	3.7 V
Battery capacity	4.4 Ah, at +20°C to +25°C (+68°F to +77°F)
Battery operating time	Approx. 4 hours at +25°C (+77°F) ambient temperature and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	4 h to 90% capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
Power management	Automatic shutdown and sleep mode (user selectable)
AC operation	AC adapter, 90–260 VAC input, 12 V output to camera
Start-up time from sleep mode	Instant on

**P/N: 64501-0402**

© 2015, FLIR Systems, Inc.  
#64501-0402; r. 24597; en-US

<b>Environmental data</b>	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none"> <li>• ETSI EN 301 489-1 (radio)</li> <li>• ETSI EN 301 489-17</li> <li>• EN 61000-6-2 (Immunity)</li> <li>• EN 61000-6-3 (Emission)</li> <li>• FCC 47 CFR Part 15 B (Emission)</li> <li>• ICES-003</li> </ul>
Radio spectrum	<ul style="list-style-type: none"> <li>• ETSI EN 300 328</li> <li>• FCC Part 15.247</li> <li>• RSS-210</li> </ul>
Magnetic fields	EN 61 000-4-8, Test level 5 for continuous field (severe industrial environment)
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Drop	2 m (6.6 ft.)
Safety	EN/UL/CSA/PSE 60950-1

<b>Physical data</b>	
Camera weight, incl. battery	0.869 kg (1.91 lb.)
Camera size (L x W x H)	246 x 97 x 184 mm (9.7 x 3.8 x 7.2 in.)
Tripod mounting	UNC ¼"-20 (adapter needed)
Material	<ul style="list-style-type: none"> <li>• Polycarbonate + acrylonitrile butadiene styrene (PC-ABS)</li> <li>• Thixomold magnesium</li> <li>• Thermoplastic elastomer (TPE)</li> </ul>
Color	Graphite gray and black

<b>Shipping information</b>	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Hard transport case</li> <li>• Infrared camera with lens</li> <li>• Battery (2 ea.)</li> <li>• Battery charger</li> <li>• FLIR Tools download card</li> <li>• Handstrap</li> <li>• Memory card</li> <li>• Power supply, incl. multi-plugs</li> <li>• Printed documentation</li> <li>• USB cable</li> <li>• User documentation CD-ROM</li> <li>• Video cable</li> </ul>
Packaging, weight	5.5 kg (12.1 lb.)
Packaging, size	500 x 190 x 370 mm (19.7 x 7.5 x 14.6 in.)
EAN-13	4743254001169
UPC-12	845188005191
Country of origin	Estonia

**Supplies & accessories:**

- 1196961; IR lens, f = 30 mm, 15° incl. case
- 1196960; IR lens, f = 10 mm, 45° incl. case
- T910814; Power supply, incl. multi plugs
- T911230ACC; Memory card SDHC 4 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.

**P/N: 64501-0402**

© 2015, FLIR Systems, Inc.  
#64501-0402; r. 24597; en-US

- 1910582ACC; Video cable
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- T198125; Battery charger, incl. power supply with multi plugs (Exx, Kxx)
- T198113; IR lens, 76 mm (6°) with case and mounting support for Exx
- T198487; Li-Ion Battery pack 3.7V 17Wh
- T198484; Pouch for FLIR Exx series
- T198485; Sun shield
- T198341ACC; Transport case Exx
- T198486; Tripod Adapter
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade

# FLIR T4xx series

---

**P/N: 62103-1101**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 62103-1101  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR T420 is a camera that offers good performance at an affordable price. Excellent ergonomics, a walk-up-and-use interface, and easy communication make the FLIR T420 a truly user-friendly camera for the beginner or advanced user.

### Benefits:

- Excellent ergonomics: The FLIR T420 has a tiltable infrared unit and auto-orientation, which make it easy to capture images from any angle comfortably. The small size and low weight of the camera facilitate its use over a full working day.
- Affordable performance: The FLIR T420 is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's touch screen.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T420 allows you to connect to smart phones or tablets, for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image.
- Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools.

## Imaging and optical data

IR resolution	320 × 240 pixels
MSX resolution	320 × 240 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<40 mK @ +30°C (+86°F)
Field of view (FOV)	25° × 19°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
Spatial resolution (IFOV)	1.36 mrad
F-number	1.3
Image frequency	60 Hz
Focus	Automatic (one shot) or manual
Digital zoom	2× and 4×

## Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 µm

P/N: 62103-1101

© 2015, FLIR Systems, Inc.  
#62103-1101; r. 24597; en-US

<b>Image presentation</b>	
Display	Touch screen, 3.5 in. LCD, 320 × 240 pixels
Auto orientation	Automatic landscape or portrait
Image adjustment	Auto or manual
<b>Image presentation modes</b>	
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image
<b>Measurement</b>	
Object temperature range	<ul style="list-style-type: none"> <li>–20°C to +120°C (–4°F to +248°F)</li> <li>0°C to +650°C (+32°F to +1202°F)</li> </ul>
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.
<b>Measurement analysis</b>	
Spotmeter	5
Area	5 areas (boxes or circles) with max./min./average
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, 3 spots, Hotspot-spot, Hotspot-temperature
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava
<b>Alarm</b>	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible
<b>Set-up</b>	
Set-up commands	Save options, Programmable button, Reset options, Set up camera, Wi-Fi, Compass, Bluetooth, Language, Time & units, Camera information
<b>Service functions</b>	
Camera software update	Use PC software FLIR Tools
<b>Storage of images</b>	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Image storage mode	<ul style="list-style-type: none"> <li>Simultaneous storage of thermal and digital photo in same JPEG file.</li> <li>Optional to store digital photo as a separate JPEG file.</li> </ul>
Time lapse	15 seconds to 24 hours
<b>Image annotations (in still images)</b>	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools



P/N: 62103-1101

© 2015, FLIR Systems, Inc.  
#62103-1101; r. 24597; en-US

Image annotations (in still images)	
Image description	Add short note (stored in JPEG EXIF tag)
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> <li>Instant Report (*.pdf file) in camera including IR and visual images</li> <li>Separate PC software with extensive report generation</li> </ul>
Geographic Information System	
Compass	Camera direction automatically added to every still image
Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card
Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>
Visual video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>
Digital camera	
Built-in digital camera	3.1 Mpixels with LED light (photo as separate image)
Digital camera, focus	Fixed focus
Digital camera, FOV	Adapts to the IR lens
Built-in digital lens data	FOV 53° × 41°
Digital camera, aspect ratio	4:3
Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser
Laser power	1 mW
Laser wavelength	635 nm (red)
Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, composite video
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards
USB	
USB	<ul style="list-style-type: none"> <li>USB-A: Connect external USB device</li> <li>USB Mini-B: Data transfer to and from PC / uncompressed colorized video</li> </ul>
USB, standard	USB Mini-B: 2.0
Composite video	
Video out	Composite
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC)
Video, connector type	4-pole 3.5 mm jack

**P/N: 62103-1101**

 © 2015, FLIR Systems, Inc.  
 #62103-1101; r. 24597; en-US

<b>Radio</b>	
Wi-Fi	<ul style="list-style-type: none"> <li>Standard: 802.11 b/g</li> <li>Frequency range: 2412–2462 MHz</li> <li>Max. output power: 15 dBm</li> </ul>
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal
<b>Power system</b>	
Battery type	Rechargeable Li ion battery
Battery voltage	3.7 V
Battery capacity	4.4 Ah, at +20°C to +25°C (+68°F to +77°F)
Battery operating time	Approx. 4 hours at +25°C (+77°F) ambient temperature and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	4 h to 90% capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
Power management	Automatic shutdown and sleep mode (user selectable)
AC operation	AC adapter, 90–260 VAC input, 12 V output to camera
Start-up time from sleep mode	Instant on
<b>Environmental data</b>	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none"> <li>ETSI EN 301 489-1 (radio)</li> <li>ETSI EN 301 489-17</li> <li>EN 61000-6-2 (Immunity)</li> <li>EN 61000-6-3 (Emission)</li> <li>FCC 47 CFR Part 15 B (Emission)</li> <li>ICES-003</li> </ul>
Radio spectrum	<ul style="list-style-type: none"> <li>ETSI EN 300 328</li> <li>FCC Part 15.247</li> <li>RSS-210</li> </ul>
Magnetic fields	EN 61 000-4-8, Test level 5 for continuous field (severe industrial environment)
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1
<b>Physical data</b>	
Camera weight, incl. battery	0.855 kg (1.88 lb.)
Camera size (L × W × H)	106 × 201 × 125 mm (4.2 × 7.9 × 4.9 in.), with built-in lens pointing forward
Tripod mounting	UNC ¼"-20 (adapter needed)
Material	<ul style="list-style-type: none"> <li>Polycarbonate + acrylonitrile butadiene styrene (PC-ABS)</li> <li>Thixomold magnesium</li> <li>Thermoplastic elastomer (TPE)</li> </ul>
Color	Graphite gray and black

**P/N: 62103-1101**

 © 2015, FLIR Systems, Inc.  
 #62103-1101; r. 24597; en-US

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Battery (2 ea.)</li> <li>• Battery charger</li> <li>• Bluetooth headset</li> <li>• Camera lens cap</li> <li>• Calibration certificate</li> <li>• FLIR Tools download card</li> <li>• User documentation CD-ROM</li> <li>• Printed documentation</li> <li>• Hard transport case</li> <li>• Memory card</li> <li>• Neckstrap</li> <li>• Power supply, incl. multi-plugs</li> <li>• Sunshield</li> <li>• USB cable</li> <li>• Video cable</li> </ul>
Packaging, weight	5.7 kg (12.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558006474
UPC-12	845188006822
Country of origin	Sweden

**Supplies & accessories:**

- 1196961; IR lens, f = 30 mm, 15° incl. case
- 1196960; IR lens, f = 10 mm, 45° incl. case
- T197215; Close-up 4× (100 µm) incl. case
- T197214; Close-up 2× (50 µm) incl. case
- T197408; IR lens, 76 mm (6°) with case and mounting support for T/B-200/400
- T197412; IR lens, 4 mm (90°) with case and mounting support for T/B2xx-4xx
- T197000; High temp. option +1200°C/+2192°F for FLIR T/B2xx to T/B4xx and A3xx, A3xxf, A3xxpt, A3xxsc series
- T910814; Power supply, incl. multi plugs
- T197667; Battery package
- T197650; 2-bay battery charger, incl. power supply with multi plugs
- 1196398ACC; Battery
- T911230ACC; Memory card SDHC 4 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- 1910582ACC; Video cable
- T198370ACC; Hard transport case for FLIR T/B2xx-4xx
- T198495; Pouch for FLIR T6xx and T4xx series
- 1124545; Pouch
- T198493; Sun shield
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4



---

**P/N: 62103-1101**

© 2015, FLIR Systems, Inc.  
#62103-1101; r. 24597; en-US

- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade

**P/N: 62103-1102**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 62103-1102  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR T420 is a camera that offers good performance at an affordable price. Excellent ergonomics, a walk-up-and-use interface, and easy communication make the FLIR T420 a truly user-friendly camera for the beginner or advanced user.

### Benefits:

- Excellent ergonomics: The FLIR T420 has a tiltable infrared unit and auto-orientation, which make it easy to capture images from any angle comfortably. The small size and low weight of the camera facilitate its use over a full working day.
- Affordable performance: The FLIR T420 is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's touch screen.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T420 allows you to connect to smart phones or tablets, for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image.
- Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools.

## Imaging and optical data

IR resolution	320 × 240 pixels
MSX resolution	320 × 240 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<40 mK @ +30°C (+86°F)
Field of view (FOV)	25° × 19°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
Spatial resolution (IFOV)	1.36 mrad
F-number	1.3
Image frequency	60 Hz
Focus	Automatic (one shot) or manual
Digital zoom	2× and 4×

## Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 µm

**P/N: 62103-1102**

 © 2015, FLIR Systems, Inc.  
 #62103-1102; r. 24597; en-US

<b>Image presentation</b>	
Display	Touch screen, 3.5 in. LCD, 320 × 240 pixels
Auto orientation	Automatic landscape or portrait
Image adjustment	Auto or manual
<b>Image presentation modes</b>	
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image
<b>Measurement</b>	
Object temperature range	<ul style="list-style-type: none"> <li>–20°C to +120°C (–4°F to +248°F)</li> <li>0°C to +650°C (+32°F to +1202°F)</li> </ul>
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.
<b>Measurement analysis</b>	
Spotmeter	5
Area	5 areas (boxes or circles) with max./min./average
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, 3 spots, Hotspot-spot, Hotspot-temperature
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava
<b>Alarm</b>	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible
<b>Set-up</b>	
Set-up commands	Save options, Programmable button, Reset options, Set up camera, Wi-Fi, Compass, Bluetooth, Language, Time & units, Camera information
<b>Service functions</b>	
Camera software update	Use PC software FLIR Tools
<b>Storage of images</b>	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Image storage mode	<ul style="list-style-type: none"> <li>Simultaneous storage of thermal and digital photo in same JPEG file.</li> <li>Optional to store digital photo as a separate JPEG file.</li> </ul>
Time lapse	15 seconds to 24 hours
<b>Image annotations (in still images)</b>	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools

**P/N: 62103-1102**

 © 2015, FLIR Systems, Inc.  
 #62103-1102; r. 24597; en-US

<b>Image annotations (in still images)</b>	
Image description	Add short note (stored in JPEG EXIF tag)
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> <li>Instant Report (*.pdf file) in camera including IR and visual images</li> <li>Separate PC software with extensive report generation</li> </ul>
<b>Geographic Information System</b>	
Compass	Camera direction automatically added to every still image
<b>Video recording in camera</b>	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card
<b>Video streaming</b>	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>
Visual video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>
<b>Digital camera</b>	
Built-in digital camera	3.1 Mpixels with LED light (photo as separate image)
Digital camera, focus	Fixed focus
Digital camera, FOV	Adapts to the IR lens
Built-in digital lens data	FOV 53° × 41°
Digital camera, aspect ratio	4:3
<b>Laser pointer</b>	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser
Laser power	1 mW
Laser wavelength	635 nm (red)
<b>Data communication interfaces</b>	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, composite video
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards
<b>USB</b>	
USB	<ul style="list-style-type: none"> <li>USB-A: Connect external USB device</li> <li>USB Mini-B: Data transfer to and from PC / uncompressed colorized video</li> </ul>
USB, standard	USB Mini-B: 2.0
<b>Composite video</b>	
Video out	Composite
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC)
Video, connector type	4-pole 3.5 mm jack

**P/N: 62103-1102**

© 2015, FLIR Systems, Inc.  
#62103-1102; r. 24597; en-US

<b>Radio</b>	
Wi-Fi	<ul style="list-style-type: none"> <li>Standard: 802.11 b/g</li> <li>Frequency range: 2412–2462 MHz</li> <li>Max. output power: 15 dBm</li> </ul>
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal
<b>Power system</b>	
Battery type	Rechargeable Li ion battery
Battery voltage	3.7 V
Battery capacity	4.4 Ah, at +20°C to +25°C (+68°F to +77°F)
Battery operating time	Approx. 4 hours at +25°C (+77°F) ambient temperature and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	4 h to 90% capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
Power management	Automatic shutdown and sleep mode (user selectable)
AC operation	AC adapter, 90–260 VAC input, 12 V output to camera
Start-up time from sleep mode	Instant on
<b>Environmental data</b>	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none"> <li>ETSI EN 301 489-1 (radio)</li> <li>ETSI EN 301 489-17</li> <li>EN 61000-6-2 (Immunity)</li> <li>EN 61000-6-3 (Emission)</li> <li>FCC 47 CFR Part 15 B (Emission)</li> <li>ICES-003</li> </ul>
Radio spectrum	<ul style="list-style-type: none"> <li>ETSI EN 300 328</li> <li>FCC Part 15.247</li> <li>RSS-210</li> </ul>
Magnetic fields	EN 61 000-4-8, Test level 5 for continuous field (severe industrial environment)
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1
<b>Physical data</b>	
Camera weight, incl. battery	0.855 kg (1.88 lb.)
Camera size (L × W × H)	106 × 201 × 125 mm (4.2 × 7.9 × 4.9 in.), with built-in lens pointing forward
Tripod mounting	UNC ¼"-20 (adapter needed)
Material	<ul style="list-style-type: none"> <li>Polycarbonate + acrylonitrile butadiene styrene (PC-ABS)</li> <li>Thixomold magnesium</li> <li>Thermoplastic elastomer (TPE)</li> </ul>
Color	Graphite gray and black



**P/N: 62103-1102**

 © 2015, FLIR Systems, Inc.  
 #62103-1102; r. 24597; en-US

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Battery (2 ea.)</li> <li>• Battery charger</li> <li>• Bluetooth headset</li> <li>• Camera lens cap</li> <li>• Calibration certificate</li> <li>• FLIR Tools download card</li> <li>• User documentation CD-ROM</li> <li>• Printed documentation</li> <li>• Hard transport case</li> <li>• Memory card</li> <li>• Neckstrap</li> <li>• Power supply, incl. multi-plugs</li> <li>• Sunshield</li> <li>• USB cable</li> <li>• Video cable</li> <li>• IR lens, f = 30 mm, 15°</li> </ul>
Packaging, weight	5.7 kg (12.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558010525
UPC-12	845188011185
Country of origin	Sweden

**Supplies & accessories:**

- 1196961; IR lens, f = 30 mm, 15° incl. case
- 1196960; IR lens, f = 10 mm, 45° incl. case
- T197215; Close-up 4× (100 µm) incl. case
- T197214; Close-up 2× (50 µm) incl. case
- T197408; IR lens, 76 mm (6°) with case and mounting support for T/B-200/400
- T197412; IR lens, 4 mm (90°) with case and mounting support for T/B2xx-4xx
- T197000; High temp. option +1200°C/+2192°F for FLIR T/B2xx to T/B4xx and A3xx, A3xxf, A3xxpt, A3xxsc series
- T910814; Power supply, incl. multi plugs
- T197667; Battery package
- T197650; 2-bay battery charger, incl. power supply with multi plugs
- 1196398ACC; Battery
- T911230ACC; Memory card SDHC 4 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- 1910582ACC; Video cable
- T198370ACC; Hard transport case for FLIR T/B2xx-4xx
- T198495; Pouch for FLIR T6xx and T4xx series
- 1124545; Pouch
- T198493; Sun shield
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)



---

**P/N: 62103-1102**

© 2015, FLIR Systems, Inc.  
#62103-1102; r. 24597; en-US

- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade

## P/N: 62103-1103

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 62103-1103  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The FLIR T420 is a camera that offers good performance at an affordable price. Excellent ergonomics, a walk-up-and-use interface, and easy communication make the FLIR T420 a truly user-friendly camera for the beginner or advanced user.

#### Benefits:

- Excellent ergonomics: The FLIR T420 has a tiltable infrared unit and auto-orientation, which make it easy to capture images from any angle comfortably. The small size and low weight of the camera facilitate its use over a full working day.
- Affordable performance: The FLIR T420 is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's touch screen.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T420 allows you to connect to smart phones or tablets, for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image.
- Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools.

### Imaging and optical data

IR resolution	320 × 240 pixels
MSX resolution	320 × 240 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<40 mK @ +30°C (+86°F)
Field of view (FOV)	25° × 19°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
Spatial resolution (IFOV)	1.36 mrad
F-number	1.3
Image frequency	60 Hz
Focus	Automatic (one shot) or manual
Digital zoom	2× and 4×

### Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 µm

**P/N: 62103-1103**

 © 2015, FLIR Systems, Inc.  
 #62103-1103; r. 24597; en-US

<b>Image presentation</b>	
Display	Touch screen, 3.5 in. LCD, 320 × 240 pixels
Auto orientation	Automatic landscape or portrait
Image adjustment	Auto or manual
<b>Image presentation modes</b>	
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image
<b>Measurement</b>	
Object temperature range	<ul style="list-style-type: none"> <li>–20°C to +120°C (–4°F to +248°F)</li> <li>0°C to +650°C (+32°F to +1202°F)</li> </ul>
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.
<b>Measurement analysis</b>	
Spotmeter	5
Area	5 areas (boxes or circles) with max./min./average
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, 3 spots, Hotspot-spot, Hotspot-temperature
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava
<b>Alarm</b>	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible
<b>Set-up</b>	
Set-up commands	Save options, Programmable button, Reset options, Set up camera, Wi-Fi, Compass, Bluetooth, Language, Time & units, Camera information
<b>Service functions</b>	
Camera software update	Use PC software FLIR Tools
<b>Storage of images</b>	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Image storage mode	<ul style="list-style-type: none"> <li>Simultaneous storage of thermal and digital photo in same JPEG file.</li> <li>Optional to store digital photo as a separate JPEG file.</li> </ul>
Time lapse	15 seconds to 24 hours
<b>Image annotations (in still images)</b>	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools

**P/N: 62103-1103**

 © 2015, FLIR Systems, Inc.  
 #62103-1103; r. 24597; en-US

<b>Image annotations (in still images)</b>	
Image description	Add short note (stored in JPEG EXIF tag)
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> <li>Instant Report (*.pdf file) in camera including IR and visual images</li> <li>Separate PC software with extensive report generation</li> </ul>
<b>Geographic Information System</b>	
Compass	Camera direction automatically added to every still image
<b>Video recording in camera</b>	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card
<b>Video streaming</b>	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>
Visual video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>
<b>Digital camera</b>	
Built-in digital camera	3.1 Mpixels with LED light (photo as separate image)
Digital camera, focus	Fixed focus
Digital camera, FOV	Adapts to the IR lens
Built-in digital lens data	FOV 53° × 41°
Digital camera, aspect ratio	4:3
<b>Laser pointer</b>	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser
Laser power	1 mW
Laser wavelength	635 nm (red)
<b>Data communication interfaces</b>	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, composite video
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards
<b>USB</b>	
USB	<ul style="list-style-type: none"> <li>USB-A: Connect external USB device</li> <li>USB Mini-B: Data transfer to and from PC / uncompressed colorized video</li> </ul>
USB, standard	USB Mini-B: 2.0
<b>Composite video</b>	
Video out	Composite
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC)
Video, connector type	4-pole 3.5 mm jack

**P/N: 62103-1103**

© 2015, FLIR Systems, Inc.  
#62103-1103; r. 24597; en-US

<b>Radio</b>	
Wi-Fi	<ul style="list-style-type: none"> <li>Standard: 802.11 b/g</li> <li>Frequency range: 2412–2462 MHz</li> <li>Max. output power: 15 dBm</li> </ul>
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal
<b>Power system</b>	
Battery type	Rechargeable Li ion battery
Battery voltage	3.7 V
Battery capacity	4.4 Ah, at +20°C to +25°C (+68°F to +77°F)
Battery operating time	Approx. 4 hours at +25°C (+77°F) ambient temperature and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	4 h to 90% capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
Power management	Automatic shutdown and sleep mode (user selectable)
AC operation	AC adapter, 90–260 VAC input, 12 V output to camera
Start-up time from sleep mode	Instant on
<b>Environmental data</b>	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none"> <li>ETSI EN 301 489-1 (radio)</li> <li>ETSI EN 301 489-17</li> <li>EN 61000-6-2 (Immunity)</li> <li>EN 61000-6-3 (Emission)</li> <li>FCC 47 CFR Part 15 B (Emission)</li> <li>ICES-003</li> </ul>
Radio spectrum	<ul style="list-style-type: none"> <li>ETSI EN 300 328</li> <li>FCC Part 15.247</li> <li>RSS-210</li> </ul>
Magnetic fields	EN 61 000-4-8, Test level 5 for continuous field (severe industrial environment)
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1
<b>Physical data</b>	
Camera weight, incl. battery	0.855 kg (1.88 lb.)
Camera size (L × W × H)	106 × 201 × 125 mm (4.2 × 7.9 × 4.9 in.), with built-in lens pointing forward
Tripod mounting	UNC ¼"-20 (adapter needed)
Material	<ul style="list-style-type: none"> <li>Polycarbonate + acrylonitrile butadiene styrene (PC-ABS)</li> <li>Thixomold magnesium</li> <li>Thermoplastic elastomer (TPE)</li> </ul>
Color	Graphite gray and black

**P/N: 62103-1103**

 © 2015, FLIR Systems, Inc.  
 #62103-1103; r. 24597; en-US

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Battery (2 ea.)</li> <li>• Battery charger</li> <li>• Bluetooth headset</li> <li>• Camera lens cap</li> <li>• Calibration certificate</li> <li>• FLIR Tools download card</li> <li>• User documentation CD-ROM</li> <li>• Printed documentation</li> <li>• Hard transport case</li> <li>• Memory card</li> <li>• Neckstrap</li> <li>• Power supply, incl. multi-plugs</li> <li>• Sunshield</li> <li>• USB cable</li> <li>• Video cable</li> <li>• IR lens, f = 10 mm, 45°</li> </ul>
Packaging, weight	5.7 kg (12.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558010532
UPC-12	845188011192
Country of origin	Sweden

**Supplies & accessories:**

- 1196961; IR lens, f = 30 mm, 15° incl. case
- 1196960; IR lens, f = 10 mm, 45° incl. case
- T197215; Close-up 4× (100 µm) incl. case
- T197214; Close-up 2× (50 µm) incl. case
- T197408; IR lens, 76 mm (6°) with case and mounting support for T/B-200/400
- T197412; IR lens, 4 mm (90°) with case and mounting support for T/B2xx-4xx
- T197000; High temp. option +1200°C/+2192°F for FLIR T/B2xx to T/B4xx and A3xx, A3xxf, A3xxpt, A3xxsc series
- T910814; Power supply, incl. multi plugs
- T197667; Battery package
- T197650; 2-bay battery charger, incl. power supply with multi plugs
- 1196398ACC; Battery
- T911230ACC; Memory card SDHC 4 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- 1910582ACC; Video cable
- T198370ACC; Hard transport case for FLIR T/B2xx-4xx
- T198495; Pouch for FLIR T6xx and T4xx series
- 1124545; Pouch
- T198493; Sun shield
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)



---

**P/N: 62103-1103**

© 2015, FLIR Systems, Inc.  
#62103-1103; r. 24597; en-US

- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade



**P/N: 62103-1205**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 62103-1205  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR T420 is a camera that offers good performance at an affordable price. Excellent ergonomics, a walk-up-and-use interface, and easy communication make the FLIR T420 a truly user-friendly camera for the beginner or advanced user.

### Benefits:

- Excellent ergonomics: The FLIR T420 has a tiltable infrared unit and auto-orientation, which make it easy to capture images from any angle comfortably. The small size and low weight of the camera facilitate its use over a full working day.
- Affordable performance: The FLIR T420 is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's touch screen.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T420 allows you to connect to smart phones or tablets, for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image.
- Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools.

## Imaging and optical data

IR resolution	320 × 240 pixels
MSX resolution	320 × 240 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<40 mK @ +30°C (+86°F)
Field of view (FOV)	25° × 19°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
Spatial resolution (IFOV)	1.36 mrad
F-number	1.3
Image frequency	60 Hz
Focus	Automatic (one shot) or manual
Digital zoom	2× and 4×

## Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 µm

**P/N: 62103-1205**

 © 2015, FLIR Systems, Inc.  
 #62103-1205; r. 24597; en-US

<b>Image presentation</b>	
Display	Touch screen, 3.5 in. LCD, 320 × 240 pixels
Auto orientation	Automatic landscape or portrait
Image adjustment	Auto or manual
<b>Image presentation modes</b>	
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image
<b>Measurement</b>	
Object temperature range	<ul style="list-style-type: none"> <li>–20°C to +120°C (–4°F to +248°F)</li> <li>0°C to +650°C (+32°F to +1202°F)</li> </ul>
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.
<b>Measurement analysis</b>	
Spotmeter	5
Area	5 areas (boxes or circles) with max./min./average
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, 3 spots, Hotspot-spot, Hotspot-temperature
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava
<b>Alarm</b>	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible
<b>Set-up</b>	
Set-up commands	Save options, Programmable button, Reset options, Set up camera, Wi-Fi, Compass, Bluetooth, Language, Time & units, Camera information
<b>Service functions</b>	
Camera software update	Use PC software FLIR Tools
<b>Storage of images</b>	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Image storage mode	<ul style="list-style-type: none"> <li>Simultaneous storage of thermal and digital photo in same JPEG file.</li> <li>Optional to store digital photo as a separate JPEG file.</li> </ul>
Time lapse	15 seconds to 24 hours
<b>Image annotations (in still images)</b>	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools

**P/N: 62103-1205**

 © 2015, FLIR Systems, Inc.  
 #62103-1205; r. 24597; en-US

<b>Image annotations (in still images)</b>	
Image description	Add short note (stored in JPEG EXIF tag)
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> <li>Instant Report (*.pdf file) in camera including IR and visual images</li> <li>Separate PC software with extensive report generation</li> </ul>
<b>Geographic Information System</b>	
Compass	Camera direction automatically added to every still image
<b>Video recording in camera</b>	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card
<b>Video streaming</b>	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>
Visual video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>
<b>Digital camera</b>	
Built-in digital camera	3.1 Mpixels with LED light (photo as separate image)
Digital camera, focus	Fixed focus
Digital camera, FOV	Adapts to the IR lens
Built-in digital lens data	FOV 53° × 41°
Digital camera, aspect ratio	4:3
<b>Laser pointer</b>	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser
Laser power	1 mW
Laser wavelength	635 nm (red)
<b>Data communication interfaces</b>	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, composite video
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards
<b>USB</b>	
USB	<ul style="list-style-type: none"> <li>USB-A: Connect external USB device</li> <li>USB Mini-B: Data transfer to and from PC / uncompressed colorized video</li> </ul>
USB, standard	USB Mini-B: 2.0
<b>Composite video</b>	
Video out	Composite
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC)
Video, connector type	4-pole 3.5 mm jack

**P/N: 62103-1205**

© 2015, FLIR Systems, Inc.  
#62103-1205; r. 24597; en-US

Radio	
Wi-Fi	<ul style="list-style-type: none"> <li>Standard: 802.11 b/g</li> <li>Frequency range: 2412–2462 MHz</li> <li>Max. output power: 15 dBm</li> </ul>
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal
Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	3.7 V
Battery capacity	4.4 Ah, at +20°C to +25°C (+68°F to +77°F)
Battery operating time	Approx. 4 hours at +25°C (+77°F) ambient temperature and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	4 h to 90% capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
Power management	Automatic shutdown and sleep mode (user selectable)
AC operation	AC adapter, 90–260 VAC input, 12 V output to camera
Start-up time from sleep mode	Instant on
Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none"> <li>ETSI EN 301 489-1 (radio)</li> <li>ETSI EN 301 489-17</li> <li>EN 61000-6-2 (Immunity)</li> <li>EN 61000-6-3 (Emission)</li> <li>FCC 47 CFR Part 15 B (Emission)</li> <li>ICES-003</li> </ul>
Radio spectrum	<ul style="list-style-type: none"> <li>ETSI EN 300 328</li> <li>FCC Part 15.247</li> <li>RSS-210</li> </ul>
Magnetic fields	EN 61 000-4-8, Test level 5 for continuous field (severe industrial environment)
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1
Physical data	
Camera weight, incl. battery	0.855 kg (1.88 lb.)
Camera size (L × W × H)	106 × 201 × 125 mm (4.2 × 7.9 × 4.9 in.), with built-in lens pointing forward
Tripod mounting	UNC ¼"-20 (adapter needed)
Material	<ul style="list-style-type: none"> <li>Polycarbonate + acrylonitrile butadiene styrene (PC-ABS)</li> <li>Thixomold magnesium</li> <li>Thermoplastic elastomer (TPE)</li> </ul>
Color	Graphite gray and black

**P/N: 62103-1205**

© 2015, FLIR Systems, Inc.  
#62103-1205; r. 24597; en-US

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Battery (2 ea.)</li> <li>• Battery charger</li> <li>• Camera lens cap</li> <li>• Calibration certificate</li> <li>• FLIR ResearchIR Standard 4</li> <li>• IR lens, f = 10 mm, 45° incl. case</li> <li>• User documentation CD-ROM</li> <li>• Printed documentation</li> <li>• Hard transport case</li> <li>• Memory card</li> <li>• Neckstrap</li> <li>• Power supply, incl. multi-plugs</li> <li>• Sunshield</li> <li>• USB cable</li> <li>• Video cable</li> </ul>
Packaging, weight	
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558008515
UPC-12	845188008871
Country of origin	Sweden

**Supplies & accessories:**

- 1196961; IR lens, f = 30 mm, 15° incl. case
- 1196960; IR lens, f = 10 mm, 45° incl. case
- T197215; Close-up 4× (100 µm) incl. case
- T197214; Close-up 2× (50 µm) incl. case
- T197408; IR lens, 76 mm (6°) with case and mounting support for T/B-200/400
- T197412; IR lens, 4 mm (90°) with case and mounting support for T/B2xx-4xx
- T197000; High temp. option +1200°C/+2192°F for FLIR T/B2xx to T/B4xx and A3xx, A3xxf, A3xxpt, A3xxsc series
- T910814; Power supply, incl. multi plugs
- T197667; Battery package
- T197650; 2-bay battery charger, incl. power supply with multi plugs
- 1196398ACC; Battery
- T911230ACC; Memory card SDHC 4 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- 1910582ACC; Video cable
- T198370ACC; Hard transport case for FLIR T/B2xx-4xx
- T198495; Pouch for FLIR T6xx and T4xx series
- 1124545; Pouch
- T198493; Sun shield
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4



---

**P/N: 62103-1205**

© 2015, FLIR Systems, Inc.  
#62103-1205; r. 24597; en-US

- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade

**P/N: 62103-1501**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 62103-1501  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR T420bx is a camera that offers good performance at an affordable price. Excellent ergonomics, a walk-up-and-use interface, and easy communication make the FLIR T420bx a truly user-friendly camera for the beginner or advanced user.

### Benefits:

- Excellent ergonomics: The FLIR T420bx has a tiltable infrared unit and auto-orientation, which make it easy to capture images from any angle comfortably. The small size and low weight of the camera facilitate its use over a full working day.
- Affordable performance: The FLIR T420bx is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. You can highlight objects of interest, on both the infrared and the visual image, by sketching or adding predefined stamps directly onto the camera's touch screen.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T420bx allows you to connect to smart phones or tablets, for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image.
- Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools.

## Imaging and optical data

IR resolution	320 × 240 pixels
MSX resolution	320 × 240 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<30 mK @ +30°C (+86°F)
Field of view (FOV)	25° × 19°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
Spatial resolution (IFOV)	1.36 mrad
F-number	1.3
Image frequency	60 Hz
Focus	Automatic (one shot) or manual
Digital zoom	2× and 4×

## Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 µm

P/N: 62103-1501

© 2015, FLIR Systems, Inc.  
#62103-1501; r. 24597; en-US

Image presentation	
Display	Touch screen, 3.5 in. LCD, 320 × 240 pixels
Auto orientation	Automatic landscape or portrait
Image adjustment	Auto or manual
Image presentation modes	
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image
Measurement	
Object temperature range	<ul style="list-style-type: none"> <li>–20°C to +120°C (–4°F to +248°F)</li> <li>0°C to +350°C (+32°F to +662°F)</li> </ul>
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.
Measurement analysis	
Spotmeter	5
Area	5 areas (boxes or circles) with max./min./average
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, 3 spots, Hotspot-spot, Hotspot-temperature
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava
Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible
Humidity alarm	1 humidity alarm, including dew point alarm
Insulation alarm	1 insulation alarm
Set-up	
Set-up commands	Save options, Programmable button, Reset options, Set up camera, Wi-Fi, Compass, Bluetooth, Language, Time & units, Camera information
Service functions	
Camera software update	Use PC software FLIR Tools
Storage of images	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Image storage mode	<ul style="list-style-type: none"> <li>Simultaneous storage of thermal and digital photo in same JPEG file.</li> <li>Optional to store digital photo as a separate JPEG file.</li> </ul>
Time lapse	15 seconds to 24 hours



P/N: 62103-1501

© 2015, FLIR Systems, Inc.  
#62103-1501; r. 24597; en-US

Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> <li>Instant Report (*.pdf file) in camera including IR and visual images</li> <li>Separate PC software with extensive report generation</li> </ul>
Geographic Information System	
Compass	Camera direction automatically added to every still image
Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card
Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>
Visual video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>
Digital camera	
Built-in digital camera	3.1 Mpixels with LED light (photo as separate image)
Digital camera, focus	Fixed focus
Digital camera, FOV	Adapts to the IR lens
Built-in digital lens data	FOV 53° × 41°
Digital camera, aspect ratio	4:3
Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser
Laser power	1 mW
Laser wavelength	635 nm (red)
Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, composite video
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards
USB	
USB	<ul style="list-style-type: none"> <li>USB-A: Connect external USB device</li> <li>USB Mini-B: Data transfer to and from PC / uncompressed colorized video</li> </ul>
USB, standard	USB Mini-B: 2.0

**P/N: 62103-1501**

 © 2015, FLIR Systems, Inc.  
 #62103-1501; r. 24597; en-US

Composite video	
Video out	Composite
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC)
Video, connector type	4-pole 3.5 mm jack
Radio	
Wi-Fi	<ul style="list-style-type: none"> <li>Standard: 802.11 b/g</li> <li>Frequency range: 2412–2462 MHz</li> <li>Max. output power: 15 dBm</li> </ul>
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal
Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	3.7 V
Battery capacity	4.4 Ah, at +20°C to +25°C (+68°F to +77°F)
Battery operating time	Approx. 4 hours at +25°C (+77°F) ambient temperature and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	4 h to 90% capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
Power management	Automatic shutdown and sleep mode (user selectable)
AC operation	AC adapter, 90–260 VAC input, 12 V output to camera
Start-up time from sleep mode	Instant on
Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none"> <li>ETSI EN 301 489-1 (radio)</li> <li>ETSI EN 301 489-17</li> <li>EN 61000-6-2 (Immunity)</li> <li>EN 61000-6-3 (Emission)</li> <li>FCC 47 CFR Part 15 B (Emission)</li> <li>ICES-003</li> </ul>
Radio spectrum	<ul style="list-style-type: none"> <li>ETSI EN 300 328</li> <li>FCC Part 15.247</li> <li>RSS-210</li> </ul>
Magnetic fields	EN 61 000-4-8, Test level 5 for continuous field (severe industrial environment)
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1
Physical data	
Camera weight, incl. battery	0.855 kg (1.88 lb.)
Camera size (L × W × H)	106 × 201 × 125 mm (4.2 × 7.9 × 4.9 in.), with built-in lens pointing forward
Tripod mounting	UNC ¼"-20 (adapter needed)

**P/N: 62103-1501**

© 2015, FLIR Systems, Inc.  
#62103-1501; r. 24597; en-US

Physical data	
Material	<ul style="list-style-type: none"> <li>Polycarbonate + acrylonitrile butadiene styrene (PC-ABS)</li> <li>Thixomold magnesium</li> <li>Thermoplastic elastomer (TPE)</li> </ul>
Color	Graphite gray and black
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Infrared camera with lens</li> <li>Battery (2 ea.)</li> <li>Battery charger</li> <li>Bluetooth headset</li> <li>Camera lens cap</li> <li>Calibration certificate</li> <li>FLIR Tools download card</li> <li>User documentation CD-ROM</li> <li>Printed documentation</li> <li>Hard transport case</li> <li>Memory card</li> <li>Neckstrap</li> <li>Power supply, incl. multi-plugs</li> <li>Sunshield</li> <li>USB cable</li> <li>Video cable</li> </ul>
Packaging, weight	5.7 kg (12.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558006511
UPC-12	845188006860
Country of origin	Sweden

#### Supplies & accessories:

- 1196961; IR lens, f = 30 mm, 15° incl. case
- 1196960; IR lens, f = 10 mm, 45° incl. case
- T197215; Close-up 4× (100 µm) incl. case
- T197214; Close-up 2× (50 µm) incl. case
- T197408; IR lens, 76 mm (6°) with case and mounting support for T/B-200/400
- T197412; IR lens, 4 mm (90°) with case and mounting support for T/B2xx-4xx
- T197000; High temp. option +1200°C/+2192°F for FLIR T/B2xx to T/B4xx and A3xx, A3xxf, A3xxpt, A3xxsc series
- T910814; Power supply, incl. multi plugs
- T197667; Battery package
- T197650; 2-bay battery charger, incl. power supply with multi plugs
- 1196398ACC; Battery
- T911230ACC; Memory card SDHC 4 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- 1910582ACC; Video cable
- T198370ACC; Hard transport case for FLIR T/B2xx-4xx
- T198495; Pouch for FLIR T6xx and T4xx series
- 1124545; Pouch
- T198493; Sun shield
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in.
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.



---

**P/N: 62103-1501**

© 2015, FLIR Systems, Inc.  
#62103-1501; r. 24597; en-US

- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade

**P/N: 62104-2203**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 62104-2203  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR T430sc is a camera that offers good performance at an affordable price. Excellent ergonomics and a walk-up-and-use interface make the FLIR T430sc a truly user-friendly camera for the beginner or advanced user. High accuracy and sensitivity together with radiometric streaming options make the FLIR T430sc well suited for research and development.

## Benefits:

- Tailor made for research and development: The FLIR T430sc has high accuracy and sensitivity to accurately measure the smallest temperature differences.
- Excellent ergonomics: The FLIR T430sc has a tiltable infrared unit and auto-orientation, which make it easy to capture images from any angle comfortably. The small size and low weight of the camera facilitate its use over a full working day.
- Affordable performance: The FLIR T430sc is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. You can highlight objects of interest, on both the infrared and visual images, by sketching or adding predefined stamps directly onto the camera's touch screen.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T430sc allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image.
- Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools.

## Imaging and optical data

IR resolution	320 × 240 pixels
MSX resolution	320 × 240 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<30 mK @ +30°C (+86°F)
Field of view (FOV)	25° × 19°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
Spatial resolution (IFOV)	1.36 mrad
F-number	1.3
Image frequency	60 Hz
Focus	Automatic (one shot) or manual
Digital zoom	2x and 4x

## Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 µm

**P/N: 62104-2203**

 © 2015, FLIR Systems, Inc.  
 #62104-2203; r. 24597; en-US

<b>Image presentation</b>	
Display	Touch screen, 3.5 in. LCD, 320 × 240 pixels
Auto orientation	Automatic landscape or portrait
Image adjustment	Auto or manual
<b>Image presentation modes</b>	
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image
<b>Measurement</b>	
Object temperature range	<ul style="list-style-type: none"> <li>–20°C to +120°C (–4°F to +248°F)</li> <li>0°C to +650°C (+32°F to +1202°F)</li> </ul>
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.
<b>Measurement analysis</b>	
Spotmeter	5
Area	5 areas (boxes or circles) with max./min./average
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, 3 spots, Hotspot-spot, Hotspot-temperature
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava
<b>Alarm</b>	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible
Humidity alarm	1 humidity alarm, including dew point alarm
Insulation alarm	1 insulation alarm
<b>Set-up</b>	
Set-up commands	Save options, Programmable button, Reset options, Set up camera, Wi-Fi, Compass, Bluetooth, Language, Time & units, Camera information
<b>Service functions</b>	
Camera software update	Use PC software FLIR Tools
<b>Storage of images</b>	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Image storage mode	<ul style="list-style-type: none"> <li>Simultaneous storage of thermal and digital photo in same JPEG file.</li> <li>Optional to store digital photo as a separate JPEG file.</li> </ul>
Time lapse	15 seconds to 24 hours

**P/N: 62104-2203**

 © 2015, FLIR Systems, Inc.  
 #62104-2203; r. 24597; en-US

<b>Image annotations (in still images)</b>	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> <li>Instant Report (*.pdf file) in camera including IR and visual images</li> <li>Separate PC software with extensive report generation</li> </ul>
<b>Geographic Information System</b>	
Compass	Camera direction automatically added to every still image
<b>Video recording in camera</b>	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card
<b>Video streaming</b>	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>
Visual video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>
<b>Digital camera</b>	
Built-in digital camera	3.1 Mpixels with LED light (photo as separate image)
Digital camera, focus	Fixed focus
Digital camera, FOV	Adapts to the IR lens
Built-in digital lens data	FOV 53° × 41°
Digital camera, aspect ratio	4:3
<b>Laser pointer</b>	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser
Laser power	1 mW
Laser wavelength	635 nm (red)
<b>Data communication interfaces</b>	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, composite video
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards
<b>USB</b>	
USB	<ul style="list-style-type: none"> <li>USB-A: Connect external USB device</li> <li>USB Mini-B: Data transfer to and from PC / uncompressed colorized video</li> </ul>
USB, standard	USB Mini-B: 2.0

**P/N: 62104-2203**

© 2015, FLIR Systems, Inc.  
#62104-2203; r. 24597; en-US

<b>Composite video</b>	
Video out	Composite
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC)
Video, connector type	4-pole 3.5 mm jack

<b>Radio</b>	
Wi-Fi	<ul style="list-style-type: none"> <li>Standard: 802.11 b/g</li> <li>Frequency range: 2412–2462 MHz</li> <li>Max. output power: 15 dBm</li> </ul>
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal

<b>Power system</b>	
Battery type	Rechargeable Li ion battery
Battery voltage	3.7 V
Battery capacity	4.4 Ah, at +20°C to +25°C (+68°F to +77°F)
Battery operating time	Approx. 4 hours at +25°C (+77°F) ambient temperature and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	4 h to 90% capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
Power management	Automatic shutdown and sleep mode (user selectable)
AC operation	AC adapter, 90–260 VAC input, 12 V output to camera
Start-up time from sleep mode	Instant on

<b>Environmental data</b>	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none"> <li>ETSI EN 301 489-1 (radio)</li> <li>ETSI EN 301 489-17</li> <li>EN 61000-6-2 (Immunity)</li> <li>EN 61000-6-3 (Emission)</li> <li>FCC 47 CFR Part 15 B (Emission)</li> <li>ICES-003</li> </ul>
Radio spectrum	<ul style="list-style-type: none"> <li>ETSI EN 300 328</li> <li>FCC Part 15.247</li> <li>RSS-210</li> </ul>
Magnetic fields	EN 61 000-4-8, Test level 5 for continuous field (severe industrial environment)
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

<b>Physical data</b>	
Camera weight, incl. battery	0.855 kg (1.88 lb.)
Camera size (L × W × H)	106 × 201 × 125 mm (4.2 × 7.9 × 4.9 in.), with built-in lens pointing forward
Tripod mounting	UNC ¼"-20 (adapter needed)



**P/N: 62104-2203**

© 2015, FLIR Systems, Inc.  
#62104-2203; r. 24597; en-US

Physical data	
Material	<ul style="list-style-type: none"> <li>Polycarbonate + acrylonitrile butadiene styrene (PC-ABS)</li> <li>Thixomold magnesium</li> <li>Thermoplastic elastomer (TPE)</li> </ul>
Color	Graphite gray and black
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Infrared camera with lens</li> <li>Battery (2 ea.)</li> <li>Battery charger</li> <li>Bluetooth headset</li> <li>Camera lens cap</li> <li>Calibration certificate</li> <li>FLIR ResearchIR Max 4</li> <li>FLIR Tools download card</li> <li>User documentation CD-ROM</li> <li>Printed documentation</li> <li>Hard transport case</li> <li>Memory card</li> <li>Neckstrap</li> <li>Power supply, incl. multi-plugs</li> <li>Sunshield</li> <li>USB cable</li> <li>Video cable</li> </ul>
Packaging, weight	
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558008690
UPC-12	845188009212
Country of origin	Sweden

**Supplies & accessories:**

- 1196961; IR lens, f = 30 mm, 15° incl. case
- 1196960; IR lens, f = 10 mm, 45° incl. case
- T197215; Close-up 4× (100 µm) incl. case
- T197214; Close-up 2× (50 µm) incl. case
- T197408; IR lens, 76 mm (6°) with case and mounting support for T/B-200/400
- T197412; IR lens, 4 mm (90°) with case and mounting support for T/B2xx-4xx
- T197000; High temp. option +1200°C/+2192°F for FLIR T/B2xx to T/B4xx and A3xx, A3xxf, A3xxpt, A3xxsc series
- T910814; Power supply, incl. multi plugs
- T197667; Battery package
- T197650; 2-bay battery charger, incl. power supply with multi plugs
- 1196398ACC; Battery
- T911230ACC; Memory card SDHC 4 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- 1910582ACC; Video cable
- T198370ACC; Hard transport case for FLIR T/B2xx-4xx
- T198495; Pouch for FLIR T6xx and T4xx series
- 1124545; Pouch
- T198493; Sun shield
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.

**P/N: 62104-2203**

© 2015, FLIR Systems, Inc.  
#62104-2203; r. 24597; en-US

- 19252-200; SS IR Window 4 in.
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade

**P/N: 62104-2204**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 62104-2204  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR T430sc is a camera that offers good performance at an affordable price. Excellent ergonomics and a walk-up-and-use interface make the FLIR T430sc a truly user-friendly camera for the beginner or advanced user. High accuracy and sensitivity together with radiometric streaming options make the FLIR T430sc well suited for research and development.

### Benefits:

- Tailor made for research and development: The FLIR T430sc has high accuracy and sensitivity to accurately measure the smallest temperature differences.
- Excellent ergonomics: The FLIR T430sc has a tiltable infrared unit and auto-orientation, which make it easy to capture images from any angle comfortably. The small size and low weight of the camera facilitate its use over a full working day.
- Affordable performance: The FLIR T430sc is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. You can highlight objects of interest, on both the infrared and visual images, by sketching or adding predefined stamps directly onto the camera's touch screen.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T430sc allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image.
- Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools.

## Imaging and optical data

IR resolution	320 × 240 pixels
MSX resolution	320 × 240 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<30 mK @ +30°C (+86°F)
Field of view (FOV)	25° × 19°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
Spatial resolution (IFOV)	1.36 mrad
F-number	1.3
Image frequency	60 Hz
Focus	Automatic (one shot) or manual
Digital zoom	2x and 4x

## Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 µm

P/N: 62104-2204

© 2015, FLIR Systems, Inc.  
#62104-2204; r. 24597; en-US

<b>Image presentation</b>	
Display	Touch screen, 3.5 in. LCD, 320 × 240 pixels
Auto orientation	Automatic landscape or portrait
Image adjustment	Auto or manual
<b>Image presentation modes</b>	
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image
<b>Measurement</b>	
Object temperature range	<ul style="list-style-type: none"> <li>–20°C to +120°C (–4°F to +248°F)</li> <li>0°C to +650°C (+32°F to +1202°F)</li> </ul>
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.
<b>Measurement analysis</b>	
Spotmeter	5
Area	5 areas (boxes or circles) with max./min./average
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, 3 spots, Hotspot-spot, Hotspot-temperature
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava
<b>Alarm</b>	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible
Humidity alarm	1 humidity alarm, including dew point alarm
Insulation alarm	1 insulation alarm
<b>Set-up</b>	
Set-up commands	Save options, Programmable button, Reset options, Set up camera, Wi-Fi, Compass, Bluetooth, Language, Time & units, Camera information
<b>Service functions</b>	
Camera software update	Use PC software FLIR Tools
<b>Storage of images</b>	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Image storage mode	<ul style="list-style-type: none"> <li>Simultaneous storage of thermal and digital photo in same JPEG file.</li> <li>Optional to store digital photo as a separate JPEG file.</li> </ul>
Time lapse	15 seconds to 24 hours

P/N: 62104-2204

© 2015, FLIR Systems, Inc.  
#62104-2204; r. 24597; en-US

Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> <li>Instant Report (*.pdf file) in camera including IR and visual images</li> <li>Separate PC software with extensive report generation</li> </ul>
Geographic Information System	
Compass	Camera direction automatically added to every still image
Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card
Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>
Visual video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>
Digital camera	
Built-in digital camera	3.1 Mpixels with LED light (photo as separate image)
Digital camera, focus	Fixed focus
Digital camera, FOV	Adapts to the IR lens
Built-in digital lens data	FOV 53° × 41°
Digital camera, aspect ratio	4:3
Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser
Laser power	1 mW
Laser wavelength	635 nm (red)
Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, composite video
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards
USB	
USB	<ul style="list-style-type: none"> <li>USB-A: Connect external USB device</li> <li>USB Mini-B: Data transfer to and from PC / uncompressed colorized video</li> </ul>
USB, standard	USB Mini-B: 2.0

P/N: 62104-2204

© 2015, FLIR Systems, Inc.  
#62104-2204; r. 24597; en-US

Composite video	
Video out	Composite
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC)
Video, connector type	4-pole 3.5 mm jack

Radio	
Wi-Fi	<ul style="list-style-type: none"> <li>Standard: 802.11 b/g</li> <li>Frequency range: 2412–2462 MHz</li> <li>Max. output power: 15 dBm</li> </ul>
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	3.7 V
Battery capacity	4.4 Ah, at +20°C to +25°C (+68°F to +77°F)
Battery operating time	Approx. 4 hours at +25°C (+77°F) ambient temperature and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	4 h to 90% capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
Power management	Automatic shutdown and sleep mode (user selectable)
AC operation	AC adapter, 90–260 VAC input, 12 V output to camera
Start-up time from sleep mode	Instant on

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none"> <li>ETSI EN 301 489-1 (radio)</li> <li>ETSI EN 301 489-17</li> <li>EN 61000-6-2 (Immunity)</li> <li>EN 61000-6-3 (Emission)</li> <li>FCC 47 CFR Part 15 B (Emission)</li> <li>ICES-003</li> </ul>
Radio spectrum	<ul style="list-style-type: none"> <li>ETSI EN 300 328</li> <li>FCC Part 15.247</li> <li>RSS-210</li> </ul>
Magnetic fields	EN 61 000-4-8, Test level 5 for continuous field (severe industrial environment)
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Camera weight, incl. battery	0.855 kg (1.88 lb.)
Camera size (L × W × H)	106 × 201 × 125 mm (4.2 × 7.9 × 4.9 in.), with built-in lens pointing forward
Tripod mounting	UNC ¼"-20 (adapter needed)

**P/N: 62104-2204**

© 2015, FLIR Systems, Inc.  
#62104-2204; r. 24597; en-US

Physical data	
Material	<ul style="list-style-type: none"> <li>Polycarbonate + acrylonitrile butadiene styrene (PC-ABS)</li> <li>Thixomold magnesium</li> <li>Thermoplastic elastomer (TPE)</li> </ul>
Color	Graphite gray and black
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Infrared camera with lens</li> <li>Battery (2 ea.)</li> <li>Battery charger</li> <li>Bluetooth headset</li> <li>Camera lens cap</li> <li>Calibration certificate</li> <li>FLIR ResearchIR Standard 4</li> <li>FLIR Tools download card</li> <li>User documentation CD-ROM</li> <li>Printed documentation</li> <li>Hard transport case</li> <li>Memory card</li> <li>Neckstrap</li> <li>Power supply, incl. multi-plugs</li> <li>Sunshield</li> <li>USB cable</li> <li>Video cable</li> </ul>
Packaging, weight	
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	
UPC-12	
Country of origin	Sweden

**Supplies & accessories:**

- 1196961; IR lens, f = 30 mm, 15° incl. case
- 1196960; IR lens, f = 10 mm, 45° incl. case
- T197215; Close-up 4× (100 µm) incl. case
- T197214; Close-up 2× (50 µm) incl. case
- T197408; IR lens, 76 mm (6°) with case and mounting support for T/B-200/400
- T197412; IR lens, 4 mm (90°) with case and mounting support for T/B2xx-4xx
- T197000; High temp. option +1200°C/+2192°F for FLIR T/B2xx to T/B4xx and A3xx, A3xxf, A3xxpt, A3xxsc series
- T910814; Power supply, incl. multi plugs
- T197667; Battery package
- T197650; 2-bay battery charger, incl. power supply with multi plugs
- 1196398ACC; Battery
- T911230ACC; Memory card SDHC 4 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- 1910582ACC; Video cable
- T198370ACC; Hard transport case for FLIR T/B2xx-4xx
- T198495; Pouch for FLIR T6xx and T4xx series
- 1124545; Pouch
- T198493; Sun shield
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.



---

**P/N: 62104-2204**

© 2015, FLIR Systems, Inc.  
#62104-2204; r. 24597; en-US

- 19252-200; SS IR Window 4 in.
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade



**P/N: 62103-1301**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 62103-1301  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR T440 is a camera that offers good performance at an affordable price. Excellent ergonomics, a walk-up-and-use interface, and easy communication make the FLIR T440 a truly user-friendly camera for the beginner or advanced user.

### Benefits:

- Excellent ergonomics: The FLIR T440 has a tiltable infrared unit and auto-orientation, which make it easy to capture images from any angle comfortably. The small size and low weight of the camera facilitate its use over a full working day.
- Affordable performance: The FLIR T440 is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's touch screen.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T440 allows you to connect to smart phones or tablets, for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image.
- Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools.

## Imaging and optical data

IR resolution	320 × 240 pixels
MSX resolution	320 × 240 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<40 mK @ +30°C (+86°F)
Field of view (FOV)	25° × 19°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
Spatial resolution (IFOV)	1.36 mrad
F-number	1.3
Image frequency	60 Hz
Focus	Automatic (one shot) or manual
Digital zoom	2×, 4× and 8×

## Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 µm

**P/N: 62103-1301**

 © 2015, FLIR Systems, Inc.  
 #62103-1301; r. 24597; en-US

Image presentation	
Display	Touch screen, 3.5 in. LCD, 320 × 240 pixels
Auto orientation	Automatic landscape or portrait
Image adjustment	Auto or manual
Image presentation modes	
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image
Measurement	
Object temperature range	<ul style="list-style-type: none"> <li>–20°C to +120°C (–4°F to +248°F)</li> <li>0°C to +650°C (+32°F to +1202°F)</li> <li>+250°C to +1200°C (+482°F to +2192°F)</li> </ul>
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.
Measurement analysis	
Spotmeter	5
Area	5 areas (boxes or circles) with max./min./average
Profile	1 line profile with max/min temp.
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area and profile
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets	The user can select and combine measurements from any number of spots/boxes/circles/profiles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava
Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible
Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, Compass, Bluetooth, Language, Time & units, Camera information
Service functions	
Camera software update	Use PC software FLIR Tools

P/N: 62103-1301

© 2015, FLIR Systems, Inc.  
#62103-1301; r. 24597; en-US

Storage of images	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Image storage mode	<ul style="list-style-type: none"> <li>Simultaneous storage of thermal and digital photo in same JPEG file.</li> <li>Optional to store digital photo as a separate JPEG file.</li> </ul>
Time lapse	15 seconds to 24 hours
Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> <li>Instant Report (*.pdf file) in camera including IR and visual images</li> <li>Separate PC software with extensive report generation</li> </ul>
Geographic Information System	
Compass	Camera direction automatically added to every still image
Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card
Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>
Visual video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>
Digital camera	
Built-in digital camera	3.1 Mpixels with LED light (photo as separate image)
Digital camera, focus	Fixed focus
Digital camera, FOV	Adapts to the IR lens
Built-in digital lens data	FOV 53° × 41°
Digital camera, aspect ratio	4:3
Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser
Laser power	1 mW
Laser wavelength	635 nm (red)
Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, composite video
METERLiNK/Bluetooth	Communication with headset and external sensors

**P/N: 62103-1301**

 © 2015, FLIR Systems, Inc.  
 #62103-1301; r. 24597; en-US

Data communication interfaces	
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards
USB	
USB	<ul style="list-style-type: none"> <li>• USB-A: Connect external USB device</li> <li>• USB Mini-B: Data transfer to and from PC / uncompressed colorized video</li> </ul>
USB, standard	USB Mini-B: 2.0
Composite video	
Video out	Composite
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC)
Video, connector type	4-pole 3.5 mm jack
Radio	
Wi-Fi	<ul style="list-style-type: none"> <li>• Standard: 802.11 b/g</li> <li>• Frequency range: 2412–2462 MHz</li> <li>• Max. output power: 15 dBm</li> </ul>
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal
Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	3.7 V
Battery capacity	4.4 Ah, at +20°C to +25°C (+68°F to +77°F)
Battery operating time	Approx. 4 hours at +25°C (+77°F) ambient temperature and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	4 h to 90% capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
Power management	Automatic shutdown and sleep mode (user selectable)
AC operation	AC adapter, 90–260 VAC input, 12 V output to camera
Start-up time from sleep mode	Instant on
Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none"> <li>• ETSI EN 301 489-1 (radio)</li> <li>• ETSI EN 301 489-17</li> <li>• EN 61000-6-2 (Immunity)</li> <li>• EN 61000-6-3 (Emission)</li> <li>• FCC 47 CFR Part 15 B (Emission)</li> <li>• ICES-003</li> </ul>
Radio spectrum	<ul style="list-style-type: none"> <li>• ETSI EN 300 328</li> <li>• FCC Part 15.247</li> <li>• RSS-210</li> </ul>
Magnetic fields	EN 61 000-4-8, Test level 5 for continuous field (severe industrial environment)
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)

**P/N: 62103-1301**

 © 2015, FLIR Systems, Inc.  
 #62103-1301; r. 24597; en-US

Environmental data	
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1
Physical data	
Camera weight, incl. battery	0.855 kg (1.88 lb.)
Camera size (L × W × H)	106 × 201 × 125 mm (4.2 × 7.9 × 4.9 in.), with built-in lens pointing forward
Tripod mounting	UNC ¼"-20 (adapter needed)
Material	<ul style="list-style-type: none"> <li>Polycarbonate + acrylonitrile butadiene styrene (PC-ABS)</li> <li>Thixomold magnesium</li> <li>Thermoplastic elastomer (TPE)</li> </ul>
Color	Graphite gray and black
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Infrared camera with lens</li> <li>Battery (2 ea.)</li> <li>Battery charger</li> <li>Bluetooth headset</li> <li>Camera lens cap</li> <li>Calibration certificate</li> <li>FLIR Tools download card</li> <li>User documentation CD-ROM</li> <li>Printed documentation</li> <li>Hard transport case</li> <li>Memory card</li> <li>Neckstrap</li> <li>Power supply, incl. multi-plugs</li> <li>Sunshield</li> <li>USB cable</li> <li>Video cable</li> </ul>
Packaging, weight	5.7 kg (12.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558006498
UPC-12	845188006846
Country of origin	Sweden

**Supplies & accessories:**

- 1196961; IR lens, f = 30 mm, 15° incl. case
- 1196960; IR lens, f = 10 mm, 45° incl. case
- T197215; Close-up 4× (100 µm) incl. case
- T197214; Close-up 2× (50 µm) incl. case
- T197408; IR lens, 76 mm (6°) with case and mounting support for T/B-200/400
- T197412; IR lens, 4 mm (90°) with case and mounting support for T/B2xx-4xx
- T910814; Power supply, incl. multi plugs
- T197667; Battery package
- T197650; 2-bay battery charger, incl. power supply with multi plugs
- 1196398ACC; Battery
- T911230ACC; Memory card SDHC 4 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- 1910582ACC; Video cable
- T198370ACC; Hard transport case for FLIR T/B2xx-4xx
- T198495; Pouch for FLIR T6xx and T4xx series
- 1124545; Pouch
- T198493; Sun shield
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt

**P/N: 62103-1301**

© 2015, FLIR Systems, Inc.  
#62103-1301; r. 24597; en-US

- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade

**P/N: 62103-1701**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 62103-1701  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR T440bx is a camera that offers good performance at an affordable price. Excellent ergonomics, a walk-up-and-use interface, and easy communication make the FLIR T440bx a truly user-friendly camera for the beginner or advanced user.

### Benefits:

- Excellent ergonomics: The FLIR T440bx has a tiltable infrared unit and auto-orientation, which make it easy to capture images from any angle comfortably. The small size and low weight of the camera facilitate its use over a full working day.
- Affordable performance: The FLIR T440bx is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. You can highlight objects of interest, on both the infrared and the visual image, by sketching or adding predefined stamps directly onto the camera's touch screen.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T440bx allows you to connect to smart phones or tablets, for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image.
- Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools.

## Imaging and optical data

IR resolution	320 × 240 pixels
MSX resolution	320 × 240 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<30 mK @ +30°C (+86°F)
Field of view (FOV)	25° × 19°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
Spatial resolution (IFOV)	1.36 mrad
F-number	1.3
Image frequency	60 Hz
Focus	Automatic (one shot) or manual
Digital zoom	2×, 4× and 8×

## Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 µm

**P/N: 62103-1701**

 © 2015, FLIR Systems, Inc.  
 #62103-1701; r. 24597; en-US

<b>Image presentation</b>	
Display	Touch screen, 3.5 in. LCD, 320 × 240 pixels
Auto orientation	Automatic landscape or portrait
Image adjustment	Auto or manual
<b>Image presentation modes</b>	
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image
<b>Measurement</b>	
Object temperature range	<ul style="list-style-type: none"> <li>–20°C to +120°C (–4°F to +248°F)</li> <li>0°C to +650°C (+32°F to +1202°F)</li> </ul>
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.
<b>Measurement analysis</b>	
Spotmeter	5
Area	5 areas (boxes or circles) with max./min./average
Profile	1 line profile with max/min temp.
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area and profile
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets	The user can select and combine measurements from any number of spots/boxes/circles/profiles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava
<b>Alarm</b>	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible
Humidity alarm	1 humidity alarm, including dew point alarm
Insulation alarm	1 insulation alarm
<b>Set-up</b>	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, Compass, Bluetooth, Language, Time & units, Camera information
<b>Service functions</b>	
Camera software update	Use PC software FLIR Tools



P/N: 62103-1701

© 2015, FLIR Systems, Inc.  
#62103-1701; r. 24597; en-US

Storage of images	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Image storage mode	<ul style="list-style-type: none"> <li>Simultaneous storage of thermal and digital photo in same JPEG file.</li> <li>Optional to store digital photo as a separate JPEG file.</li> </ul>
Time lapse	15 seconds to 24 hours
Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> <li>Instant Report (*.pdf file) in camera including IR and visual images</li> <li>Separate PC software with extensive report generation</li> </ul>
Geographic Information System	
Compass	Camera direction automatically added to every still image
Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card
Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>
Visual video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>
Digital camera	
Built-in digital camera	3.1 Mpixels with LED light (photo as separate image)
Digital camera, focus	Fixed focus
Digital camera, FOV	Adapts to the IR lens
Built-in digital lens data	FOV 53° × 41°
Digital camera, aspect ratio	4:3
Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser
Laser power	1 mW
Laser wavelength	635 nm (red)
Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, composite video
METERLiNK/Bluetooth	Communication with headset and external sensors

**P/N: 62103-1701**

 © 2015, FLIR Systems, Inc.  
 #62103-1701; r. 24597; en-US

Data communication interfaces	
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards
USB	
USB	<ul style="list-style-type: none"> <li>• USB-A: Connect external USB device</li> <li>• USB Mini-B: Data transfer to and from PC / uncompressed colorized video</li> </ul>
USB, standard	USB Mini-B: 2.0
Composite video	
Video out	Composite
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC)
Video, connector type	4-pole 3.5 mm jack
Radio	
Wi-Fi	<ul style="list-style-type: none"> <li>• Standard: 802.11 b/g</li> <li>• Frequency range: 2412–2462 MHz</li> <li>• Max. output power: 15 dBm</li> </ul>
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal
Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	3.7 V
Battery capacity	4.4 Ah, at +20°C to +25°C (+68°F to +77°F)
Battery operating time	Approx. 4 hours at +25°C (+77°F) ambient temperature and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	4 h to 90% capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
Power management	Automatic shutdown and sleep mode (user selectable)
AC operation	AC adapter, 90–260 VAC input, 12 V output to camera
Start-up time from sleep mode	Instant on
Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none"> <li>• ETSI EN 301 489-1 (radio)</li> <li>• ETSI EN 301 489-17</li> <li>• EN 61000-6-2 (Immunity)</li> <li>• EN 61000-6-3 (Emission)</li> <li>• FCC 47 CFR Part 15 B (Emission)</li> <li>• ICES-003</li> </ul>
Radio spectrum	<ul style="list-style-type: none"> <li>• ETSI EN 300 328</li> <li>• FCC Part 15.247</li> <li>• RSS-210</li> </ul>
Magnetic fields	EN 61 000-4-8, Test level 5 for continuous field (severe industrial environment)
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)

**P/N: 62103-1701**

 © 2015, FLIR Systems, Inc.  
 #62103-1701; r. 24597; en-US

Environmental data	
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1
Physical data	
Camera weight, incl. battery	0.855 kg (1.88 lb.)
Camera size (L × W × H)	106 × 201 × 125 mm (4.2 × 7.9 × 4.9 in.), with built-in lens pointing forward
Tripod mounting	UNC ¼"-20 (adapter needed)
Material	<ul style="list-style-type: none"> <li>Polycarbonate + acrylonitrile butadiene styrene (PC-ABS)</li> <li>Thixomold magnesium</li> <li>Thermoplastic elastomer (TPE)</li> </ul>
Color	Graphite gray and black
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Infrared camera with lens</li> <li>Battery (2 ea.)</li> <li>Battery charger</li> <li>Bluetooth headset</li> <li>Camera lens cap</li> <li>Calibration certificate</li> <li>FLIR Tools download card</li> <li>User documentation CD-ROM</li> <li>Printed documentation</li> <li>Hard transport case</li> <li>Memory card</li> <li>Neckstrap</li> <li>Power supply, incl. multi-plugs</li> <li>Sunshield</li> <li>USB cable</li> <li>Video cable</li> </ul>
Packaging, weight	5.7 kg (12.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558006535
UPC-12	845188006884
Country of origin	Sweden

**Supplies & accessories:**

- 1196961; IR lens, f = 30 mm, 15° incl. case
- 1196960; IR lens, f = 10 mm, 45° incl. case
- T197215; Close-up 4× (100 µm) incl. case
- T197214; Close-up 2× (50 µm) incl. case
- T197408; IR lens, 76 mm (6°) with case and mounting support for T/B-200/400
- T197412; IR lens, 4 mm (90°) with case and mounting support for T/B2xx-4xx
- T197000; High temp. option +1200°C/+2192°F for FLIR T/B2xx to T/B4xx and A3xx, A3xxf, A3xxpt, A3xxsc series
- T910814; Power supply, incl. multi plugs
- T197667; Battery package
- T197650; 2-bay battery charger, incl. power supply with multi plugs
- 1196398ACC; Battery
- T911230ACC; Memory card SDHC 4 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- 1910582ACC; Video cable
- T198370ACC; Hard transport case for FLIR T/B2xx-4xx
- T198495; Pouch for FLIR T6xx and T4xx series
- 1124545; Pouch
- T198493; Sun shield
- T198499; Neck strap

**P/N: 62103-1701**

© 2015, FLIR Systems, Inc.  
#62103-1701; r. 24597; en-US

- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade

**P/N: 62104-1903**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 62104-1903  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR T450sc is a camera that offers good performance at an affordable price. Excellent ergonomics, a walk-up-and-use interface, and easy communication make the FLIR T450sc a truly user-friendly camera for the beginner or advanced user. High accuracy and sensitivity together with radiometric recording and streaming options make the FLIR T450sc well suited for research and development.

### Benefits:

- Tailor made for research and development: The FLIR T450sc has high accuracy and sensitivity to accurately measure the smallest temperature differences. With real-time radiometric recording in the camera, it is possible to capture fast events on the camera's SD card for further analysis by the supplied analysis software.
- Excellent ergonomics: The FLIR T450sc has a tiltable infrared unit and auto-orientation, which make it easy to capture images from any angle comfortably. The small size and low weight of the camera facilitate its use over a full working day.
- Affordable performance: The FLIR T450sc is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. You can highlight objects of interest, on both the infrared and visual images, by sketching or adding predefined stamps directly onto the camera's touch screen.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T450sc allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image.
- Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools.

## Imaging and optical data

IR resolution	320 × 240 pixels
MSX resolution	320 × 240 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<30 mK @ +30°C (+86°F)
Field of view (FOV)	25° × 19°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
Spatial resolution (IFOV)	1.36 mrad
F-number	1.3
Image frequency	60 Hz
Focus	Automatic (one shot) or manual
Digital zoom	2x, 4x and 8x

## Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 µm

**P/N: 62104-1903**

 © 2015, FLIR Systems, Inc.  
 #62104-1903; r. 24597; en-US

<b>Image presentation</b>	
Display	Touch screen, 3.5 in. LCD, 320 × 240 pixels
Auto orientation	Automatic landscape or portrait
Image adjustment	Auto or manual
<b>Image presentation modes</b>	
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image
<b>Measurement</b>	
Object temperature range	<ul style="list-style-type: none"> <li>–20°C to +120°C (–4°F to +248°F)</li> <li>0°C to +650°C (+32°F to +1202°F)</li> </ul>
Accuracy	<ul style="list-style-type: none"> <li>±1°C (±1.8°F) or ±1% of reading for limited temperature range.</li> <li>±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.</li> </ul>
<b>Measurement analysis</b>	
Spotmeter	5
Area	5 areas (boxes or circles) with max./min./average
Profile	1 line profile with max/min temp.
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area and profile
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets	The user can select and combine measurements from any number of spots/boxes/circles/profiles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava
<b>Alarm</b>	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible
<b>Set-up</b>	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, Compass, Bluetooth, Language, Time & units, Camera information
<b>Service functions</b>	
Camera software update	Use PC software FLIR Tools

P/N: 62104-1903

© 2015, FLIR Systems, Inc.  
#62104-1903; r. 24597; en-US

Storage of images	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Image storage mode	<ul style="list-style-type: none"> <li>Simultaneous storage of thermal and digital photo in same JPEG file.</li> <li>Optional to store digital photo as a separate JPEG file.</li> </ul>
Time lapse	15 seconds to 24 hours
Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> <li>Instant Report (*.pdf file) in camera including IR and visual images</li> <li>Separate PC software with extensive report generation</li> </ul>
Geographic Information System	
Compass	Camera direction automatically added to every still image
Video recording in camera	
Radiometric IR video recording	CSQ to memory card
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card
Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>
Visual video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>
Digital camera	
Built-in digital camera	3.1 Mpixels with LED light (photo as separate image)
Digital camera, focus	Fixed focus
Digital camera, FOV	Adapts to the IR lens
Built-in digital lens data	FOV 53° × 41°
Digital camera, aspect ratio	4:3
Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser
Laser power	1 mW
Laser wavelength	635 nm (red)

P/N: 62104-1903

© 2015, FLIR Systems, Inc.  
#62104-1903; r. 24597; en-US

Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, composite video
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards
USB	
USB	<ul style="list-style-type: none"> <li>USB-A: Connect external USB device</li> <li>USB Mini-B: Data transfer to and from PC / uncompressed colorized video</li> </ul>
USB, standard	USB Mini-B: 2.0
Composite video	
Video out	Composite
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC)
Video, connector type	4-pole 3.5 mm jack
Radio	
Wi-Fi	<ul style="list-style-type: none"> <li>Standard: 802.11 b/g</li> <li>Frequency range: 2412–2462 MHz</li> <li>Max. output power: 15 dBm</li> </ul>
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal
Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	3.7 V
Battery capacity	4.4 Ah, at +20°C to +25°C (+68°F to +77°F)
Battery operating time	Approx. 4 hours at +25°C (+77°F) ambient temperature and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	4 h to 90% capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
Power management	Automatic shutdown and sleep mode (user selectable)
AC operation	AC adapter, 90–260 VAC input, 12 V output to camera
Start-up time from sleep mode	Instant on
Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none"> <li>ETSI EN 301 489-1 (radio)</li> <li>ETSI EN 301 489-17</li> <li>EN 61000-6-2 (Immunity)</li> <li>EN 61000-6-3 (Emission)</li> <li>FCC 47 CFR Part 15 B (Emission)</li> <li>ICES-003</li> </ul>
Radio spectrum	<ul style="list-style-type: none"> <li>ETSI EN 300 328</li> <li>FCC Part 15.247</li> <li>RSS-210</li> </ul>
Magnetic fields	EN 61 000-4-8, Test level 5 for continuous field (severe industrial environment)



**P/N: 62104-1903**

 © 2015, FLIR Systems, Inc.  
 #62104-1903; r. 24597; en-US

Environmental data	
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1
Physical data	
Camera weight, incl. battery	0.855 kg (1.88 lb.)
Camera size (L × W × H)	106 × 201 × 125 mm (4.2 × 7.9 × 4.9 in.), with built-in lens pointing forward
Tripod mounting	UNC ¼"-20 (adapter needed)
Material	<ul style="list-style-type: none"> <li>Polycarbonate + acrylonitrile butadiene styrene (PC-ABS)</li> <li>Thixomold magnesium</li> <li>Thermoplastic elastomer (TPE)</li> </ul>
Color	Graphite gray and black
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Infrared camera with lens</li> <li>Battery (2 ea.)</li> <li>Battery charger</li> <li>Bluetooth headset</li> <li>Camera lens cap</li> <li>Calibration certificate</li> <li>FLIR ResearchIR Max 4</li> <li>FLIR Tools download card</li> <li>User documentation CD-ROM</li> <li>Printed documentation</li> <li>Hard transport case</li> <li>Memory card</li> <li>Neckstrap</li> <li>Power supply, incl. multi-plugs</li> <li>Sunshield</li> <li>USB cable</li> <li>Video cable</li> </ul>
Packaging, weight	6.9 kg (15.2 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558006559
UPC-12	845188006907
Country of origin	Sweden

**Supplies & accessories:**

- 1196961; IR lens, f = 30 mm, 15° incl. case
- 1196960; IR lens, f = 10 mm, 45° incl. case
- T197215; Close-up 4× (100 µm) incl. case
- T197214; Close-up 2× (50 µm) incl. case
- T197408; IR lens, 76 mm (6°) with case and mounting support for T/B-200/400
- T197412; IR lens, 4 mm (90°) with case and mounting support for T/B2xx-4xx
- T910814; Power supply, incl. multi plugs
- T197667; Battery package
- T197650; 2-bay battery charger, incl. power supply with multi plugs
- 1196398ACC; Battery
- T911230ACC; Memory card SDHC 4 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- 1910582ACC; Video cable
- T198370ACC; Hard transport case for FLIR T/B2xx-4xx
- T198495; Pouch for FLIR T6xx and T4xx series
- 1124545; Pouch

**P/N: 62104-1903**

© 2015, FLIR Systems, Inc.  
#62104-1903; r. 24597; en-US

- T198493; Sun shield
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade

**P/N: 62104-2801**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 62104-2801  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR T460 is a camera that offers good performance at an affordable price. Excellent ergonomics and a walk-up-and-use interface make the FLIR T460 a truly user-friendly camera for the beginner or advanced user.

### Benefits:

- Excellent ergonomics: The FLIR T460 has a tiltable infrared unit and auto-orientation, which make it easy to capture images from any angle comfortably. The small size and low weight of the camera facilitate its use over a full working day.
- Affordable performance: The FLIR T460 is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. You can highlight objects of interest, on both the infrared and visual images, by sketching or adding predefined stamps directly onto the camera's touch screen.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T460 allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image.
- Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools.

## Imaging and optical data

IR resolution	320 × 240 pixels
MSX resolution	320 × 240 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<30 mK @ +30°C (+86°F)
Field of view (FOV)	25° × 19°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
Spatial resolution (IFOV)	1.36 mrad
F-number	1.3
Image frequency	60 Hz
Focus	Automatic (one shot) or manual
Digital zoom	2×, 4× and 8×

## Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 µm

**P/N: 62104-2801**

 © 2015, FLIR Systems, Inc.  
 #62104-2801; r. 24597; en-US

Image presentation	
Display	Touch screen, 3.5 in. LCD, 320 × 240 pixels
Auto orientation	Automatic landscape or portrait
Image adjustment	Auto or manual
Image presentation modes	
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image
Measurement	
Object temperature range	<ul style="list-style-type: none"> <li>• -20°C to +120°C (-4°F to +248°F)</li> <li>• 0°C to +650°C (+32°F to +1202°F)</li> <li>• +250°C to +1500°C (+482°F to +2732°F)</li> </ul>
Accuracy	<ul style="list-style-type: none"> <li>• ±1°C (±1.8°F) or ±1% of reading for limited temperature range.</li> <li>• ±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.</li> </ul>
Measurement analysis	
Spotmeter	5
Area	5 areas (boxes or circles) with max./min./average
Profile	1 line profile with max/min temp.
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area and profile
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets	The user can select and combine measurements from any number of spots/boxes/circles/profiles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava
Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible
Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, Compass, Bluetooth, Language, Time & units, Camera information
Service functions	
Camera software update	Use PC software FLIR Tools

**P/N: 62104-2801**

 © 2015, FLIR Systems, Inc.  
 #62104-2801; r. 24597; en-US

<b>Storage of images</b>	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Image storage mode	<ul style="list-style-type: none"> <li>Simultaneous storage of thermal and digital photo in same JPEG file.</li> <li>Optional to store digital photo as a separate JPEG file.</li> </ul>
Time lapse	15 seconds to 24 hours
<b>Image annotations (in still images)</b>	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> <li>Instant Report (*.pdf file) in camera including IR and visual images</li> <li>Separate PC software with extensive report generation</li> </ul>
<b>Geographic Information System</b>	
Compass	Camera direction automatically added to every still image
<b>Video recording in camera</b>	
Radiometric IR video recording	CSQ to memory card
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card
<b>Video streaming</b>	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>
Visual video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>
<b>Digital camera</b>	
Built-in digital camera	3.1 Mpixels with LED light (photo as separate image)
Digital camera, focus	Fixed focus
Digital camera, FOV	Adapts to the IR lens
Built-in digital lens data	FOV 53° × 41°
Digital camera, aspect ratio	4:3
<b>Laser pointer</b>	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser
Laser power	1 mW
Laser wavelength	635 nm (red)

**P/N: 62104-2801**

 © 2015, FLIR Systems, Inc.  
 #62104-2801; r. 24597; en-US

<b>Data communication interfaces</b>	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, composite video
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards
<b>USB</b>	
USB	<ul style="list-style-type: none"> <li>• USB-A: Connect external USB device</li> <li>• USB Mini-B: Data transfer to and from PC / uncompressed colorized video</li> </ul>
USB, standard	USB Mini-B: 2.0
<b>Composite video</b>	
Video out	Composite
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC)
Video, connector type	4-pole 3.5 mm jack
<b>Radio</b>	
Wi-Fi	<ul style="list-style-type: none"> <li>• Standard: 802.11 b/g</li> <li>• Frequency range: 2412–2462 MHz</li> <li>• Max. output power: 15 dBm</li> </ul>
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal
<b>Power system</b>	
Battery type	Rechargeable Li ion battery
Battery voltage	3.7 V
Battery capacity	4.4 Ah, at +20°C to +25°C (+68°F to +77°F)
Battery operating time	Approx. 4 hours at +25°C (+77°F) ambient temperature and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	4 h to 90% capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
Power management	Automatic shutdown and sleep mode (user selectable)
AC operation	AC adapter, 90–260 VAC input, 12 V output to camera
Start-up time from sleep mode	Instant on
<b>Environmental data</b>	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none"> <li>• ETSI EN 301 489-1 (radio)</li> <li>• ETSI EN 301 489-17</li> <li>• EN 61000-6-2 (Immunity)</li> <li>• EN 61000-6-3 (Emission)</li> <li>• FCC 47 CFR Part 15 B (Emission)</li> <li>• ICES-003</li> </ul>
Radio spectrum	<ul style="list-style-type: none"> <li>• ETSI EN 300 328</li> <li>• FCC Part 15.247</li> <li>• RSS-210</li> </ul>
Magnetic fields	EN 61 000-4-8, Test level 5 for continuous field (severe industrial environment)

**P/N: 62104-2801**

 © 2015, FLIR Systems, Inc.  
 #62104-2801; r. 24597; en-US

Environmental data	
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Camera weight, incl. battery	0.855 kg (1.88 lb.)
Camera size (L × W × H)	106 × 201 × 125 mm (4.2 × 7.9 × 4.9 in.), with built-in lens pointing forward
Tripod mounting	UNC ¼"-20 (adapter needed)
Material	<ul style="list-style-type: none"> <li>Polycarbonate + acrylonitrile butadiene styrene (PC-ABS)</li> <li>Thixomold magnesium</li> <li>Thermoplastic elastomer (TPE)</li> </ul>
Color	Graphite gray and black

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Infrared camera with lens</li> <li>Battery (2 ea.)</li> <li>Battery charger</li> <li>Bluetooth headset</li> <li>Camera lens cap</li> <li>Calibration certificate</li> <li>FLIR Tools download card</li> <li>User documentation CD-ROM</li> <li>Printed documentation</li> <li>Hard transport case</li> <li>Memory card</li> <li>Neckstrap</li> <li>Power supply, incl. multi-plugs</li> <li>Sunshield</li> <li>USB cable</li> <li>Video cable</li> </ul>
Packaging, weight	5.7 kg (12.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558008706
UPC-12	845188009229
Country of origin	Sweden

**Supplies & accessories:**

- 1196961; IR lens, f = 30 mm, 15° incl. case
- 1196960; IR lens, f = 10 mm, 45° incl. case
- T197215; Close-up 4× (100 µm) incl. case
- T197214; Close-up 2× (50 µm) incl. case
- T197408; IR lens, 76 mm (6°) with case and mounting support for T/B-200/400
- T197412; IR lens, 4 mm (90°) with case and mounting support for T/B2xx-4xx
- T197000; High temp. option +1200°C/+2192°F for FLIR T/B2xx to T/B4xx and A3xx, A3xxf, A3xxpt, A3xxsc series
- T910814; Power supply, incl. multi plugs
- T197667; Battery package
- T197650; 2-bay battery charger, incl. power supply with multi plugs
- 1196398ACC; Battery
- T911230ACC; Memory card SDHC 4 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- 1910582ACC; Video cable
- T198370ACC; Hard transport case for FLIR T/B2xx-4xx
- T198495; Pouch for FLIR T6xx and T4xx series



---

**P/N: 62104-2801**

© 2015, FLIR Systems, Inc.  
#62104-2801; r. 24597; en-US

- 1124545; Pouch
- T198493; Sun shield
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)



# FLIR T6xx series

---

**P/N: 55903-0922**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 55903-0922  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR T600 is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 480 × 360 pixel infrared resolution. The FLIR T600 is flexible and can meet your every need, and has extensive communication options.

### Benefits:

- Highest performance with the latest technology: The FLIR T600 is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before.
- Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T600 allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image.

## Imaging and optical data

IR resolution	480 × 360 pixels
UltraMax	No
Thermal sensitivity/NETD	<40 mK @ +30°C (+86°F)
Field of view (FOV)	15° × 11°
Minimum focus distance	0.5 m (1.64 ft.)
Focal length	41 mm (1.63 in.)
Spatial resolution (IFOV)	0.55 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Automatic (one shot) or manual
Digital zoom	1–4× continuous
Digital image enhancement	Adaptive digital noise reduction

## Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm

**P/N: 55903-0922**

 © 2015, FLIR Systems, Inc.  
 #55903-0922; r. 24597; en-US

<b>Image presentation</b>	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.

<b>Image presentation modes</b>	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image

<b>Measurement</b>	
Object temperature range	<ul style="list-style-type: none"> <li>• -40°C to +150°C (-40°F to +302°F)</li> <li>• +100°C to +650°C (+212°F to +1202°F)</li> </ul>
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.

<b>Measurement analysis</b>	
Spotmeter	10
Area	5 areas (boxes or circles) with max./min./average
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets	The user can select and combine measurements from any number of spots/boxes/circles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava

<b>Alarm</b>	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function

<b>Set-up</b>	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, Bluetooth, Language, Time & units, Camera information

**P/N: 55903-0922**

 © 2015, FLIR Systems, Inc.  
 #55903-0922; r. 24597; en-US

Service functions	
Camera software update	Use PC software FLIR Tools
Storage of images	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none"> <li>Simultaneous storage of thermal and digital photo in same JPEG file.</li> <li>Optional to store digital photo as a separate JPEG file.</li> </ul>
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image
Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> <li>Separate PC software with extensive report generation</li> </ul>
Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card
Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>
Visual video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>
Digital camera	
Built-in digital camera	5 Mpixels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light
Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)
Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards

**P/N: 55903-0922**

 © 2015, FLIR Systems, Inc.  
 #55903-0922; r. 24597; en-US

<b>USB</b>	
USB	<ul style="list-style-type: none"> <li>• USB-A: Connect external USB device</li> <li>• USB Mini-B: Data transfer to and from PC / uncompressed colorized video</li> </ul>
USB, standard	USB 2.0 high speed
<b>Video output</b>	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible
<b>Radio</b>	
Wi-Fi	<ul style="list-style-type: none"> <li>• Standard: 802.11 b/g</li> <li>• Frequency range: 2412–2462 MHz</li> <li>• Max. output power: 15 dBm</li> </ul>
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal
<b>Power system</b>	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
<b>Environmental data</b>	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none"> <li>• ETSI EN 301 489-1 (radio)</li> <li>• ETSI EN 301 489-17</li> <li>• EN 61000-6-2 (Immunity)</li> <li>• EN 61000-6-3 (Emission)</li> <li>• FCC 47 CFR Part 15 Class B (Emission)</li> <li>• ICES-003</li> </ul>
Radio spectrum	<ul style="list-style-type: none"> <li>• ETSI EN 300 328</li> <li>• FCC Part 15.247</li> <li>• RSS-210</li> </ul>
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1
<b>Physical data</b>	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

**P/N: 55903-0922**

 © 2015, FLIR Systems, Inc.  
 #55903-0922; r. 24597; en-US

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Battery (2 ea.)</li> <li>• Battery charger</li> <li>• Bluetooth headset</li> <li>• Calibration certificate</li> <li>• FLIR Tools download card</li> <li>• User documentation CD-ROM</li> <li>• Printed documentation</li> <li>• HDMI-DVI cable</li> <li>• HDMI-HDMI cable</li> <li>• Hard transport case</li> <li>• Lens cap</li> <li>• Memory card</li> <li>• Neck strap</li> <li>• Power supply, incl. multi-plugs</li> <li>• Tripod adapter</li> <li>• USB cable, Std A to Mini-B</li> </ul>
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558006641
UPC-12	845188006990
Country of origin	Sweden

**Supplies & accessories:**

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9× (50 µm) with case
- T198060; Close-up IR lens, 5.8× (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5× (25 µm) with case
- T197896; High temp option +300°C to 2000°C (+572°F to 3632°F) for FLIR A6xxsc and T6xx
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T198506; Li-Ion Battery pack 3.7V 29Wh
- T911230ACC; Memory card SDHC 4 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case for T6xx series
- T198495; Pouch for FLIR T6xx and T4xx series
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player



---

**P/N: 55903-0922**

© 2015, FLIR Systems, Inc.  
#55903-0922; r. 24597; en-US

- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade

**P/N: 55903-1022**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 55903-1022  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR T600 is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 480 × 360 pixel infrared resolution. The FLIR T600 is flexible and can meet your every need, and has extensive communication options.

## Benefits:

- Highest performance with the latest technology: The FLIR T600 is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before.
- Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T600 allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image.

## Imaging and optical data

IR resolution	480 × 360 pixels
UltraMax	No
Thermal sensitivity/NETD	<40 mK @ +30°C (+86°F)
Field of view (FOV)	25° × 19°
Minimum focus distance	0.25 m (0.82 ft.)
Focal length	25 mm (0.97 in.)
Spatial resolution (IFOV)	0.92 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Automatic (one shot) or manual
Digital zoom	1–4× continuous
Digital image enhancement	Adaptive digital noise reduction

## Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm



**P/N: 55903-1022**

 © 2015, FLIR Systems, Inc.  
 #55903-1022; r. 24597; en-US

<b>Image presentation</b>	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.

<b>Image presentation modes</b>	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image

<b>Measurement</b>	
Object temperature range	<ul style="list-style-type: none"> <li>–40°C to +150°C (–40°F to +302°F)</li> <li>+100°C to +650°C (+212°F to +1202°F)</li> </ul>
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.

<b>Measurement analysis</b>	
Spotmeter	10
Area	5 areas (boxes or circles) with max./min./average
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets	The user can select and combine measurements from any number of spots/boxes/circles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava

<b>Alarm</b>	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function

<b>Set-up</b>	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, Bluetooth, Language, Time & units, Camera information

**P/N: 55903-1022**

 © 2015, FLIR Systems, Inc.  
 #55903-1022; r. 24597; en-US

Service functions	
Camera software update	Use PC software FLIR Tools
Storage of images	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none"> <li>Simultaneous storage of thermal and digital photo in same JPEG file.</li> <li>Optional to store digital photo as a separate JPEG file.</li> </ul>
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image
Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> <li>Separate PC software with extensive report generation</li> </ul>
Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card
Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>
Visual video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>
Digital camera	
Built-in digital camera	5 Mpixels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light
Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)
Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards

**P/N: 55903-1022**

 © 2015, FLIR Systems, Inc.  
 #55903-1022; r. 24597; en-US

<b>USB</b>	
USB	<ul style="list-style-type: none"> <li>• USB-A: Connect external USB device</li> <li>• USB Mini-B: Data transfer to and from PC / uncompressed colorized video</li> </ul>
USB, standard	USB 2.0 high speed
<b>Video output</b>	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible
<b>Radio</b>	
Wi-Fi	<ul style="list-style-type: none"> <li>• Standard: 802.11 b/g</li> <li>• Frequency range: 2412–2462 MHz</li> <li>• Max. output power: 15 dBm</li> </ul>
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal
<b>Power system</b>	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
<b>Environmental data</b>	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none"> <li>• ETSI EN 301 489-1 (radio)</li> <li>• ETSI EN 301 489-17</li> <li>• EN 61000-6-2 (Immunity)</li> <li>• EN 61000-6-3 (Emission)</li> <li>• FCC 47 CFR Part 15 Class B (Emission)</li> <li>• ICES-003</li> </ul>
Radio spectrum	<ul style="list-style-type: none"> <li>• ETSI EN 300 328</li> <li>• FCC Part 15.247</li> <li>• RSS-210</li> </ul>
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1
<b>Physical data</b>	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

**P/N: 55903-1022**

 © 2015, FLIR Systems, Inc.  
 #55903-1022; r. 24597; en-US

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Battery (2 ea.)</li> <li>• Battery charger</li> <li>• Bluetooth headset</li> <li>• Calibration certificate</li> <li>• FLIR Tools download card</li> <li>• User documentation CD-ROM</li> <li>• Printed documentation</li> <li>• HDMI-DVI cable</li> <li>• HDMI-HDMI cable</li> <li>• Hard transport case</li> <li>• Lens cap</li> <li>• Memory card</li> <li>• Neck strap</li> <li>• Power supply, incl. multi-plugs</li> <li>• Tripod adapter</li> <li>• USB cable, Std A to Mini-B</li> </ul>
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558006658
UPC-12	845188007003
Country of origin	Sweden

**Supplies & accessories:**

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9× (50 µm) with case
- T198060; Close-up IR lens, 5.8× (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5× (25 µm) with case
- T197896; High temp option +300°C to 2000°C (+572°F to 3632°F) for FLIR A6xxsc and T6xx
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T198506; Li-Ion Battery pack 3.7V 29Wh
- T911230ACC; Memory card SDHC 4 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case for T6xx series
- T198495; Pouch for FLIR T6xx and T4xx series
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in.
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player



---

**P/N: 55903-1022**

© 2015, FLIR Systems, Inc.  
#55903-1022; r. 24597; en-US

- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade

**P/N: 55903-1522**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 55903-1522  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR T600 is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 480 × 360 pixel infrared resolution. The FLIR T600 is flexible and can meet your every need, and has extensive communication options.

### Benefits:

- Highest performance with the latest technology: The FLIR T600 is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before.
- Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T600 allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image.

## Imaging and optical data

IR resolution	480 × 360 pixels
UltraMax	No
Thermal sensitivity/NETD	<40 mK @ +30°C (+86°F)
Field of view (FOV)	45° × 34°
Minimum focus distance	0.15 m (0.49 ft.)
Focal length	13 mm (0.52 in.)
Spatial resolution (IFOV)	1.73 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Automatic (one shot) or manual
Digital zoom	1–4× continuous
Digital image enhancement	Adaptive digital noise reduction

## Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm

**P/N: 55903-1522**

 © 2015, FLIR Systems, Inc.  
 #55903-1522; r. 24597; en-US

<b>Image presentation</b>	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.
<b>Image presentation modes</b>	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image
<b>Measurement</b>	
Object temperature range	<ul style="list-style-type: none"> <li>–40°C to +150°C (–40°F to +302°F)</li> <li>+100°C to +650°C (+212°F to +1202°F)</li> </ul>
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.
<b>Measurement analysis</b>	
Spotmeter	10
Area	5 areas (boxes or circles) with max./min./average
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets	The user can select and combine measurements from any number of spots/boxes/circles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava
<b>Alarm</b>	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
<b>Set-up</b>	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, Bluetooth, Language, Time & units, Camera information

**P/N: 55903-1522**

© 2015, FLIR Systems, Inc.  
#55903-1522; r. 24597; en-US

<b>Service functions</b>	
Camera software update	Use PC software FLIR Tools
<b>Storage of images</b>	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none"> <li>Simultaneous storage of thermal and digital photo in same JPEG file.</li> <li>Optional to store digital photo as a separate JPEG file.</li> </ul>
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image
<b>Image annotations (in still images)</b>	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> <li>Separate PC software with extensive report generation</li> </ul>
<b>Video recording in camera</b>	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card
<b>Video streaming</b>	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>
Visual video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>
<b>Digital camera</b>	
Built-in digital camera	5 Mpixels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light
<b>Laser pointer</b>	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)
<b>Data communication interfaces</b>	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards



**P/N: 55903-1522**

 © 2015, FLIR Systems, Inc.  
 #55903-1522; r. 24597; en-US

<b>USB</b>	
USB	<ul style="list-style-type: none"> <li>• USB-A: Connect external USB device</li> <li>• USB Mini-B: Data transfer to and from PC / uncompressed colorized video</li> </ul>
USB, standard	USB 2.0 high speed
<b>Video output</b>	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible
<b>Radio</b>	
Wi-Fi	<ul style="list-style-type: none"> <li>• Standard: 802.11 b/g</li> <li>• Frequency range: 2412–2462 MHz</li> <li>• Max. output power: 15 dBm</li> </ul>
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal
<b>Power system</b>	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
<b>Environmental data</b>	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none"> <li>• ETSI EN 301 489-1 (radio)</li> <li>• ETSI EN 301 489-17</li> <li>• EN 61000-6-2 (Immunity)</li> <li>• EN 61000-6-3 (Emission)</li> <li>• FCC 47 CFR Part 15 Class B (Emission)</li> <li>• ICES-003</li> </ul>
Radio spectrum	<ul style="list-style-type: none"> <li>• ETSI EN 300 328</li> <li>• FCC Part 15.247</li> <li>• RSS-210</li> </ul>
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1
<b>Physical data</b>	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

**P/N: 55903-1522**

 © 2015, FLIR Systems, Inc.  
 #55903-1522; r. 24597; en-US

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Battery (2 ea.)</li> <li>• Battery charger</li> <li>• Bluetooth headset</li> <li>• Calibration certificate</li> <li>• FLIR Tools download card</li> <li>• User documentation CD-ROM</li> <li>• Printed documentation</li> <li>• HDMI-DVI cable</li> <li>• HDMI-HDMI cable</li> <li>• Hard transport case</li> <li>• Lens cap</li> <li>• Memory card</li> <li>• Neck strap</li> <li>• Power supply, incl. multi-plugs</li> <li>• Tripod adapter</li> <li>• USB cable, Std A to Mini-B</li> </ul>
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558006665
UPC-12	845188007010
Country of origin	Sweden

**Supplies & accessories:**

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9× (50 µm) with case
- T198060; Close-up IR lens, 5.8× (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5× (25 µm) with case
- T197896; High temp option +300°C to 2000°C (+572°F to 3632°F) for FLIR A6xxsc and T6xx
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T198506; Li-Ion Battery pack 3.7V 29Wh
- T911230ACC; Memory card SDHC 4 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case for T6xx series
- T198495; Pouch for FLIR T6xx and T4xx series
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player



---

**P/N: 55903-1522**

© 2015, FLIR Systems, Inc.  
#55903-1522; r. 24597; en-US

- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade

## P/N: 55903-2822

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 55903-2822  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The FLIR T600bx is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 480 × 360 pixel infrared resolution. The FLIR T600bx is flexible and can meet your every need, and has extensive communication options.

#### Benefits:

- Highest performance with the latest technology: The FLIR T600bx is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before.
- Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T600bx allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image.

### Imaging and optical data

IR resolution	480 × 360 pixels
UltraMax	No
Thermal sensitivity/NETD	<30 mK @ +30°C (+86°F)
Field of view (FOV)	25° × 19°
Minimum focus distance	0.25 m (0.82 ft.)
Focal length	25 mm (0.97 in.)
Spatial resolution (IFOV)	0.92 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Automatic (one shot) or manual
Digital zoom	1–4× continuous
Digital image enhancement	Adaptive digital noise reduction

### Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm

**P/N: 55903-2822**

 © 2015, FLIR Systems, Inc.  
 #55903-2822; r. 24597; en-US

Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.
Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image
Measurement	
Object temperature range	<ul style="list-style-type: none"> <li>–40°C to +150°C (–40°F to +302°F)</li> <li>+100°C to +350°C (+212°F to +662°F)</li> </ul>
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.
Measurement analysis	
Spotmeter	10
Area	5 areas (boxes or circles) with max./min./average
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets	The user can select and combine measurements from any number of spots/boxes/circles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava
Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Humidity alarm	1 humidity alarm, including dew point alarm
Insulation alarm	1 insulation alarm

P/N: 55903-2822

© 2015, FLIR Systems, Inc.  
#55903-2822; r. 24597; en-US

<b>Set-up</b>	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, Bluetooth, Language, Time & units, Camera information
<b>Service functions</b>	
Camera software update	Use PC software FLIR Tools
<b>Storage of images</b>	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none"> <li>Simultaneous storage of thermal and digital photo in same JPEG file.</li> <li>Optional to store digital photo as a separate JPEG file.</li> </ul>
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image
<b>Image annotations (in still images)</b>	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> <li>Separate PC software with extensive report generation</li> </ul>
<b>Video recording in camera</b>	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card
<b>Video streaming</b>	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>
Visual video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>
<b>Digital camera</b>	
Built-in digital camera	5 Mpixels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light
<b>Laser pointer</b>	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

**P/N: 55903-2822**

 © 2015, FLIR Systems, Inc.  
 #55903-2822; r. 24597; en-US

<b>Data communication interfaces</b>	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards
<b>USB</b>	
USB	<ul style="list-style-type: none"> <li>• USB-A: Connect external USB device</li> <li>• USB Mini-B: Data transfer to and from PC / uncompressed colorized video</li> </ul>
USB, standard	USB 2.0 high speed
<b>Video output</b>	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible
<b>Radio</b>	
Wi-Fi	<ul style="list-style-type: none"> <li>• Standard: 802.11 b/g</li> <li>• Frequency range: 2412–2462 MHz</li> <li>• Max. output power: 15 dBm</li> </ul>
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal
<b>Power system</b>	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
<b>Environmental data</b>	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none"> <li>• ETSI EN 301 489-1 (radio)</li> <li>• ETSI EN 301 489-17</li> <li>• EN 61000-6-2 (Immunity)</li> <li>• EN 61000-6-3 (Emission)</li> <li>• FCC 47 CFR Part 15 Class B (Emission)</li> <li>• ICES-003</li> </ul>
Radio spectrum	<ul style="list-style-type: none"> <li>• ETSI EN 300 328</li> <li>• FCC Part 15.247</li> <li>• RSS-210</li> </ul>
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1
<b>Physical data</b>	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)

**P/N: 55903-2822**

 © 2015, FLIR Systems, Inc.  
 #55903-2822; r. 24597; en-US

Physical data	
Tripod mounting	UNC ¼"-20
Housing material	Magnesium
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Battery (2 ea.)</li> <li>• Battery charger</li> <li>• Bluetooth headset</li> <li>• Calibration certificate</li> <li>• FLIR Tools download card</li> <li>• User documentation CD-ROM</li> <li>• Printed documentation</li> <li>• HDMI-DVI cable</li> <li>• HDMI-HDMI cable</li> <li>• Hard transport case</li> <li>• Lens cap</li> <li>• Memory card</li> <li>• Neck strap</li> <li>• Power supply, incl. multi-plugs</li> <li>• Tripod adapter</li> <li>• USB cable, Std A to Mini-B</li> </ul>
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558006696
UPC-12	845188007041
Country of origin	Sweden

**Supplies & accessories:**

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9× (50 µm) with case
- T198060; Close-up IR lens, 5.8× (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5× (25 µm) with case
- T197896; High temp option +300°C to 2000°C (+572°F to 3632°F) for FLIR A6xxsc and T6xx
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T198506; Li-Ion Battery pack 3.7V 29Wh
- T911230ACC; Memory card SDHC 4 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case for T6xx series
- T198495; Pouch for FLIR T6xx and T4xx series
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.





---

**P/N: 55903-2822**

© 2015, FLIR Systems, Inc.  
#55903-2822; r. 24597; en-US

- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade

## P/N: 55903-2922

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 55903-2922  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The FLIR T600bx is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 480 × 360 pixel infrared resolution. The FLIR T600bx is flexible and can meet your every need, and has extensive communication options.

#### Benefits:

- Highest performance with the latest technology: The FLIR T600bx is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before.
- Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T600bx allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image.

### Imaging and optical data

IR resolution	480 × 360 pixels
UltraMax	No
Thermal sensitivity/NETD	<30 mK @ +30°C (+86°F)
Field of view (FOV)	45° × 34°
Minimum focus distance	0.15 m (0.49 ft.)
Focal length	13 mm (0.52 in.)
Spatial resolution (IFOV)	1.73 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Automatic (one shot) or manual
Digital zoom	1–4× continuous
Digital image enhancement	Adaptive digital noise reduction

### Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm

**P/N: 55903-2922**

 © 2015, FLIR Systems, Inc.  
 #55903-2922; r. 24597; en-US

Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.
Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image
Measurement	
Object temperature range	<ul style="list-style-type: none"> <li>–40°C to +150°C (–40°F to +302°F)</li> <li>+100°C to +350°C (+212°F to +662°F)</li> </ul>
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.
Measurement analysis	
Spotmeter	10
Area	5 areas (boxes or circles) with max./min./average
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets	The user can select and combine measurements from any number of spots/boxes/circles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava
Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Humidity alarm	1 humidity alarm, including dew point alarm
Insulation alarm	1 insulation alarm

**P/N: 55903-2922**

 © 2015, FLIR Systems, Inc.  
 #55903-2922; r. 24597; en-US

<b>Set-up</b>	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, Bluetooth, Language, Time & units, Camera information
<b>Service functions</b>	
Camera software update	Use PC software FLIR Tools
<b>Storage of images</b>	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none"> <li>Simultaneous storage of thermal and digital photo in same JPEG file.</li> <li>Optional to store digital photo as a separate JPEG file.</li> </ul>
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image
<b>Image annotations (in still images)</b>	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> <li>Separate PC software with extensive report generation</li> </ul>
<b>Video recording in camera</b>	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card
<b>Video streaming</b>	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>
Visual video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>
<b>Digital camera</b>	
Built-in digital camera	5 Mpixels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light
<b>Laser pointer</b>	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

**P/N: 55903-2922**

 © 2015, FLIR Systems, Inc.  
 #55903-2922; r. 24597; en-US

<b>Data communication interfaces</b>	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards
<b>USB</b>	
USB	<ul style="list-style-type: none"> <li>• USB-A: Connect external USB device</li> <li>• USB Mini-B: Data transfer to and from PC / uncompressed colorized video</li> </ul>
USB, standard	USB 2.0 high speed
<b>Video output</b>	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible
<b>Radio</b>	
Wi-Fi	<ul style="list-style-type: none"> <li>• Standard: 802.11 b/g</li> <li>• Frequency range: 2412–2462 MHz</li> <li>• Max. output power: 15 dBm</li> </ul>
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal
<b>Power system</b>	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
<b>Environmental data</b>	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none"> <li>• ETSI EN 301 489-1 (radio)</li> <li>• ETSI EN 301 489-17</li> <li>• EN 61000-6-2 (Immunity)</li> <li>• EN 61000-6-3 (Emission)</li> <li>• FCC 47 CFR Part 15 Class B (Emission)</li> <li>• ICES-003</li> </ul>
Radio spectrum	<ul style="list-style-type: none"> <li>• ETSI EN 300 328</li> <li>• FCC Part 15.247</li> <li>• RSS-210</li> </ul>
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1
<b>Physical data</b>	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)

**P/N: 55903-2922**

 © 2015, FLIR Systems, Inc.  
 #55903-2922; r. 24597; en-US

Physical data	
Tripod mounting	UNC ¼"-20
Housing material	Magnesium
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Battery (2 ea.)</li> <li>• Battery charger</li> <li>• Bluetooth headset</li> <li>• Calibration certificate</li> <li>• FLIR Tools download card</li> <li>• User documentation CD-ROM</li> <li>• Printed documentation</li> <li>• HDMI-DVI cable</li> <li>• HDMI-HDMI cable</li> <li>• Hard transport case</li> <li>• Lens cap</li> <li>• Memory card</li> <li>• Neck strap</li> <li>• Power supply, incl. multi-plugs</li> <li>• Tripod adapter</li> <li>• USB cable, Std A to Mini-B</li> </ul>
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558006702
UPC-12	845188007058
Country of origin	Sweden

**Supplies & accessories:**

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9× (50 µm) with case
- T198060; Close-up IR lens, 5.8× (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5× (25 µm) with case
- T197896; High temp option +300°C to 2000°C (+572°F to 3632°F) for FLIR A6xxsc and T6xx
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T198506; Li-Ion Battery pack 3.7V 29Wh
- T911230ACC; Memory card SDHC 4 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case for T6xx series
- T198495; Pouch for FLIR T6xx and T4xx series
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.



---

**P/N: 55903-2922**

© 2015, FLIR Systems, Inc.  
#55903-2922; r. 24597; en-US

- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade

**P/N: 55903-8022**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 55903-8022  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR T610 is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 640 × 480 pixel infrared resolution. The FLIR T610 is flexible and can meet your every need, and has extensive communication options.

## Benefits:

- Highest performance with the latest technology: The FLIR T610 is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before.
- Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T610 allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image.
- Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools.

## Imaging and optical data

IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<40 mK @ +30°C (+86°F)
Field of view (FOV)	15° × 11°
Minimum focus distance	0.5 m (1.64 ft.)
Focal length	41 mm (1.63 in.)
Spatial resolution (IFOV)	0.41 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Automatic (one shot) or manual
Digital zoom	1–4× continuous
Digital image enhancement	Adaptive digital noise reduction



P/N: 55903-8022

© 2015, FLIR Systems, Inc.  
#55903-8022; r. 24597; en-US

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 µm
Detector pitch	17 µm
Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.
Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image
Measurement	
Object temperature range	<ul style="list-style-type: none"> <li>–40°C to +150°C (–40°F to +302°F)</li> <li>+100°C to +650°C (+212°F to +1202°F)</li> </ul>
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.
Measurement analysis	
Spotmeter	10
Area	5 areas (boxes or circles) with max./min./average
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets	The user can select and combine measurements from any number of spots/boxes/circles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava
Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible

P/N: 55903-8022

© 2015, FLIR Systems, Inc.  
#55903-8022; r. 24597; en-US

<b>Set-up</b>	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information
<b>Service functions</b>	
Camera software update	Use PC software FLIR Tools
<b>Storage of images</b>	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none"> <li>Simultaneous storage of thermal and digital photo in same JPEG file.</li> <li>Optional to store digital photo as a separate JPEG file.</li> </ul>
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image
<b>Image annotations (in still images)</b>	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> <li>Instant Report (*.pdf file) in camera</li> <li>Separate PC software with extensive report generation</li> </ul>
<b>Geographic Information System</b>	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image
<b>Video recording in camera</b>	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card
<b>Video streaming</b>	
Non-radiometric IR video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>
Visual video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>
<b>Digital camera</b>	
Built-in digital camera	5 Mpixels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light
<b>Laser pointer</b>	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image

**P/N: 55903-8022**

 © 2015, FLIR Systems, Inc.  
 #55903-8022; r. 24597; en-US

<b>Laser pointer</b>	
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)
<b>Data communication interfaces</b>	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards
<b>USB</b>	
USB	<ul style="list-style-type: none"> <li>• USB-A: Connect external USB device</li> <li>• USB Mini-B: Data transfer to and from PC / uncompressed colorized video</li> </ul>
USB, standard	USB 2.0 high speed
<b>Video output</b>	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible
<b>Radio</b>	
Wi-Fi	<ul style="list-style-type: none"> <li>• Standard: 802.11 b/g</li> <li>• Frequency range: 2412–2462 MHz</li> <li>• Max. output power: 15 dBm</li> </ul>
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal
<b>Power system</b>	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
<b>Environmental data</b>	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none"> <li>• ETSI EN 301 489-1 (radio)</li> <li>• ETSI EN 301 489-17</li> <li>• EN 61000-6-2 (Immunity)</li> <li>• EN 61000-6-3 (Emission)</li> <li>• FCC 47 CFR Part 15 Class B (Emission)</li> <li>• ICES-003</li> </ul>
Radio spectrum	<ul style="list-style-type: none"> <li>• ETSI EN 300 328</li> <li>• FCC Part 15.247</li> <li>• RSS-210</li> </ul>
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

**P/N: 55903-8022**

 © 2015, FLIR Systems, Inc.  
 #55903-8022; r. 24597; en-US

Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Battery (2 ea.)</li> <li>• Battery charger</li> <li>• Bluetooth headset</li> <li>• Calibration certificate</li> <li>• FLIR Tools download card</li> <li>• User documentation CD-ROM</li> <li>• Printed documentation</li> <li>• HDMI-DVI cable</li> <li>• HDMI-HDMI cable</li> <li>• Hard transport case</li> <li>• Lens cap</li> <li>• Memory card</li> <li>• Neck strap</li> <li>• Power supply, incl. multi-plugs</li> <li>• Tripod adapter</li> <li>• USB cable, Std A to Mini-B</li> </ul>
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558006740
UPC-12	845188007096
Country of origin	Sweden

**Supplies & accessories:**

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9× (50 µm) with case
- T198060; Close-up IR lens, 5.8× (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5× (25 µm) with case
- T197896; High temp option +300°C to 2000°C (+572°F to 3632°F) for FLIR A6xxsc and T6xx
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T198506; Li-Ion Battery pack 3.7V 29Wh
- T911230ACC; Memory card SDHC 4 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case for T6xx series
- T198495; Pouch for FLIR T6xx and T4xx series
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.

---

**P/N: 55903-8022**

© 2015, FLIR Systems, Inc.  
#55903-8022; r. 24597; en-US

- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade

**P/N: 55903-3922**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 55903-3922  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR T610 is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 640 × 480 pixel infrared resolution. The FLIR T610 is flexible and can meet your every need, and has extensive communication options.

## Benefits:

- Highest performance with the latest technology: The FLIR T610 is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before.
- Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T610 allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image.
- Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools.

## Imaging and optical data

IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<40 mK @ +30°C (+86°F)
Field of view (FOV)	25° × 19°
Minimum focus distance	0.25 m (0.82 ft.)
Focal length	25 mm (0.97 in.)
Spatial resolution (IFOV)	0.68 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Automatic (one shot) or manual
Digital zoom	1–4× continuous
Digital image enhancement	Adaptive digital noise reduction

P/N: 55903-3922

© 2015, FLIR Systems, Inc.  
#55903-3922; r. 24597; en-US

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 µm
Detector pitch	17 µm
Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.
Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image
Measurement	
Object temperature range	<ul style="list-style-type: none"> <li>–40°C to +150°C (–40°F to +302°F)</li> <li>+100°C to +650°C (+212°F to +1202°F)</li> </ul>
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.
Measurement analysis	
Spotmeter	10
Area	5 areas (boxes or circles) with max./min./average
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets	The user can select and combine measurements from any number of spots/boxes/circles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava
Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible

**P/N: 55903-3922**

 © 2015, FLIR Systems, Inc.  
 #55903-3922; r. 24597; en-US

<b>Set-up</b>	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information
<b>Service functions</b>	
Camera software update	Use PC software FLIR Tools
<b>Storage of images</b>	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none"> <li>Simultaneous storage of thermal and digital photo in same JPEG file.</li> <li>Optional to store digital photo as a separate JPEG file.</li> </ul>
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image
<b>Image annotations (in still images)</b>	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> <li>Instant Report (*.pdf file) in camera</li> <li>Separate PC software with extensive report generation</li> </ul>
<b>Geographic Information System</b>	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image
<b>Video recording in camera</b>	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card
<b>Video streaming</b>	
Non-radiometric IR video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>
Visual video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>
<b>Digital camera</b>	
Built-in digital camera	5 Mpixels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light
<b>Laser pointer</b>	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image



**P/N: 55903-3922**

 © 2015, FLIR Systems, Inc.  
 #55903-3922; r. 24597; en-US

<b>Laser pointer</b>	
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)
<b>Data communication interfaces</b>	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards
<b>USB</b>	
USB	<ul style="list-style-type: none"> <li>• USB-A: Connect external USB device</li> <li>• USB Mini-B: Data transfer to and from PC / uncompressed colorized video</li> </ul>
USB, standard	USB 2.0 high speed
<b>Video output</b>	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible
<b>Radio</b>	
Wi-Fi	<ul style="list-style-type: none"> <li>• Standard: 802.11 b/g</li> <li>• Frequency range: 2412–2462 MHz</li> <li>• Max. output power: 15 dBm</li> </ul>
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal
<b>Power system</b>	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
<b>Environmental data</b>	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none"> <li>• ETSI EN 301 489-1 (radio)</li> <li>• ETSI EN 301 489-17</li> <li>• EN 61000-6-2 (Immunity)</li> <li>• EN 61000-6-3 (Emission)</li> <li>• FCC 47 CFR Part 15 Class B (Emission)</li> <li>• ICES-003</li> </ul>
Radio spectrum	<ul style="list-style-type: none"> <li>• ETSI EN 300 328</li> <li>• FCC Part 15.247</li> <li>• RSS-210</li> </ul>
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

**P/N: 55903-3922**

 © 2015, FLIR Systems, Inc.  
 #55903-3922; r. 24597; en-US

Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Battery (2 ea.)</li> <li>• Battery charger</li> <li>• Bluetooth headset</li> <li>• Calibration certificate</li> <li>• FLIR Tools download card</li> <li>• User documentation CD-ROM</li> <li>• Printed documentation</li> <li>• HDMI-DVI cable</li> <li>• HDMI-HDMI cable</li> <li>• Hard transport case</li> <li>• Lens cap</li> <li>• Memory card</li> <li>• Neck strap</li> <li>• Power supply, incl. multi-plugs</li> <li>• Tripod adapter</li> <li>• USB cable, Std A to Mini-B</li> </ul>
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558006757
UPC-12	845188007102
Country of origin	Sweden

**Supplies & accessories:**

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9× (50 µm) with case
- T198060; Close-up IR lens, 5.8× (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5× (25 µm) with case
- T197896; High temp option +300°C to 2000°C (+572°F to 3632°F) for FLIR A6xxsc and T6xx
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T198506; Li-Ion Battery pack 3.7V 29Wh
- T911230ACC; Memory card SDHC 4 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case for T6xx series
- T198495; Pouch for FLIR T6xx and T4xx series
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.

---

**P/N: 55903-3922**

© 2015, FLIR Systems, Inc.  
#55903-3922; r. 24597; en-US

- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade

## P/N: 55903-4022

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 55903-4022  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The FLIR T610 is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 640 × 480 pixel infrared resolution. The FLIR T610 is flexible and can meet your every need, and has extensive communication options.

### Benefits:

- Highest performance with the latest technology: The FLIR T610 is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before.
- Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T610 allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image.
- Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools.

### Imaging and optical data

IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<40 mK @ +30°C (+86°F)
Field of view (FOV)	45° × 34°
Minimum focus distance	0.15 m (0.49 ft.)
Focal length	13 mm (0.52 in.)
Spatial resolution (IFOV)	1.30 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Automatic (one shot) or manual
Digital zoom	1–4× continuous
Digital image enhancement	Adaptive digital noise reduction

P/N: 55903-4022

© 2015, FLIR Systems, Inc.  
#55903-4022; r. 24597; en-US

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 µm
Detector pitch	17 µm
Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.
Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image
Measurement	
Object temperature range	<ul style="list-style-type: none"> <li>–40°C to +150°C (–40°F to +302°F)</li> <li>+100°C to +650°C (+212°F to +1202°F)</li> </ul>
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.
Measurement analysis	
Spotmeter	10
Area	5 areas (boxes or circles) with max./min./average
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets	The user can select and combine measurements from any number of spots/boxes/circles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava
Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible

**P/N: 55903-4022**

 © 2015, FLIR Systems, Inc.  
 #55903-4022; r. 24597; en-US

<b>Set-up</b>	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information
<b>Service functions</b>	
Camera software update	Use PC software FLIR Tools
<b>Storage of images</b>	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none"> <li>Simultaneous storage of thermal and digital photo in same JPEG file.</li> <li>Optional to store digital photo as a separate JPEG file.</li> </ul>
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image
<b>Image annotations (in still images)</b>	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> <li>Instant Report (*.pdf file) in camera</li> <li>Separate PC software with extensive report generation</li> </ul>
<b>Geographic Information System</b>	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image
<b>Video recording in camera</b>	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card
<b>Video streaming</b>	
Non-radiometric IR video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>
Visual video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>
<b>Digital camera</b>	
Built-in digital camera	5 Mpixels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light
<b>Laser pointer</b>	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image

**P/N: 55903-4022**

 © 2015, FLIR Systems, Inc.  
 #55903-4022; r. 24597; en-US

<b>Laser pointer</b>	
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)
<b>Data communication interfaces</b>	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards
<b>USB</b>	
USB	<ul style="list-style-type: none"> <li>• USB-A: Connect external USB device</li> <li>• USB Mini-B: Data transfer to and from PC / uncompressed colorized video</li> </ul>
USB, standard	USB 2.0 high speed
<b>Video output</b>	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible
<b>Radio</b>	
Wi-Fi	<ul style="list-style-type: none"> <li>• Standard: 802.11 b/g</li> <li>• Frequency range: 2412–2462 MHz</li> <li>• Max. output power: 15 dBm</li> </ul>
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal
<b>Power system</b>	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
<b>Environmental data</b>	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none"> <li>• ETSI EN 301 489-1 (radio)</li> <li>• ETSI EN 301 489-17</li> <li>• EN 61000-6-2 (Immunity)</li> <li>• EN 61000-6-3 (Emission)</li> <li>• FCC 47 CFR Part 15 Class B (Emission)</li> <li>• ICES-003</li> </ul>
Radio spectrum	<ul style="list-style-type: none"> <li>• ETSI EN 300 328</li> <li>• FCC Part 15.247</li> <li>• RSS-210</li> </ul>
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

**P/N: 55903-4022**

 © 2015, FLIR Systems, Inc.  
 #55903-4022; r. 24597; en-US

Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Battery (2 ea.)</li> <li>• Battery charger</li> <li>• Bluetooth headset</li> <li>• Calibration certificate</li> <li>• FLIR Tools download card</li> <li>• User documentation CD-ROM</li> <li>• Printed documentation</li> <li>• HDMI-DVI cable</li> <li>• HDMI-HDMI cable</li> <li>• Hard transport case</li> <li>• Lens cap</li> <li>• Memory card</li> <li>• Neck strap</li> <li>• Power supply, incl. multi-plugs</li> <li>• Tripod adapter</li> <li>• USB cable, Std A to Mini-B</li> </ul>
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558006764
UPC-12	845188007119
Country of origin	Sweden

**Supplies & accessories:**

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9× (50 µm) with case
- T198060; Close-up IR lens, 5.8× (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5× (25 µm) with case
- T197896; High temp option +300°C to 2000°C (+572°F to 3632°F) for FLIR A6xxsc and T6xx
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T198506; Li-Ion Battery pack 3.7V 29Wh
- T911230ACC; Memory card SDHC 4 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case for T6xx series
- T198495; Pouch for FLIR T6xx and T4xx series
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.



---

**P/N: 55903-4022**

© 2015, FLIR Systems, Inc.  
#55903-4022; r. 24597; en-US

- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade

**P/N: 55903-5022**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 55903-5022  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR T620 is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 640 × 480 pixel infrared resolution. The FLIR T620 is flexible and can meet your every need, and has extensive communication options.

## Benefits:

- Highest performance with the latest technology: The FLIR T620 is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before.
- Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T620 allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image.
- Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools.

## Imaging and optical data

IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<40 mK @ +30°C (+86°F)
Field of view (FOV)	15° × 11°
Minimum focus distance	0.5 m (1.64 ft.)
Focal length	41 mm (1.63 in.)
Spatial resolution (IFOV)	0.41 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Automatic (one shot) or manual
Digital zoom	1–4× continuous
Digital image enhancement	Adaptive digital noise reduction

**P/N: 55903-5022**

© 2015, FLIR Systems, Inc.  
#55903-5022; r. 24597; en-US

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 $\mu\text{m}$
Detector pitch	17 $\mu\text{m}$
Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.
Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image
Measurement	
Object temperature range	<ul style="list-style-type: none"> <li>–40°C to +150°C (–40°F to +302°F)</li> <li>+100°C to +650°C (+212°F to +1202°F)</li> </ul>
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.
Measurement analysis	
Spotmeter	10
Area	5 areas (boxes or circles) with max./min./average
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets	The user can select and combine measurements from any number of spots/boxes/circles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava
Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible

**P/N: 55903-5022**

 © 2015, FLIR Systems, Inc.  
 #55903-5022; r. 24597; en-US

<b>Set-up</b>	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information
<b>Service functions</b>	
Camera software update	Use PC software FLIR Tools
<b>Storage of images</b>	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none"> <li>Simultaneous storage of thermal and digital photo in same JPEG file.</li> <li>Optional to store digital photo as a separate JPEG file.</li> </ul>
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image
<b>Image annotations (in still images)</b>	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> <li>Instant Report (*.pdf file) in camera</li> <li>Separate PC software with extensive report generation</li> </ul>
<b>Geographic Information System</b>	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image
<b>Video recording in camera</b>	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card
<b>Video streaming</b>	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>
Visual video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>
<b>Digital camera</b>	
Built-in digital camera	5 Mpixels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light

**P/N: 55903-5022**

© 2015, FLIR Systems, Inc.  
#55903-5022; r. 24597; en-US

<b>Laser pointer</b>	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)
<b>Data communication interfaces</b>	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards
<b>USB</b>	
USB	<ul style="list-style-type: none"> <li>USB-A: Connect external USB device</li> <li>USB Mini-B: Data transfer to and from PC / uncompressed colorized video</li> </ul>
USB, standard	USB 2.0 high speed
<b>Video output</b>	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible
<b>Radio</b>	
Wi-Fi	<ul style="list-style-type: none"> <li>Standard: 802.11 b/g</li> <li>Frequency range: 2412–2462 MHz</li> <li>Max. output power: 15 dBm</li> </ul>
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal
<b>Power system</b>	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
<b>Environmental data</b>	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none"> <li>ETSI EN 301 489-1 (radio)</li> <li>ETSI EN 301 489-17</li> <li>EN 61000-6-2 (Immunity)</li> <li>EN 61000-6-3 (Emission)</li> <li>FCC 47 CFR Part 15 Class B (Emission)</li> <li>ICES-003</li> </ul>
Radio spectrum	<ul style="list-style-type: none"> <li>ETSI EN 300 328</li> <li>FCC Part 15.247</li> <li>RSS-210</li> </ul>
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)

**P/N: 55903-5022**

© 2015, FLIR Systems, Inc.  
#55903-5022; r. 24597; en-US

Environmental data	
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1
Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Battery (2 ea.)</li> <li>• Battery charger</li> <li>• Bluetooth headset</li> <li>• Calibration certificate</li> <li>• FLIR Tools download card</li> <li>• User documentation CD-ROM</li> <li>• Printed documentation</li> <li>• HDMI-DVI cable</li> <li>• HDMI-HDMI cable</li> <li>• Hard transport case</li> <li>• Lens cap</li> <li>• Memory card</li> <li>• Neck strap</li> <li>• Power supply, incl. multi-plugs</li> <li>• Tripod adapter</li> <li>• USB cable, Std A to Mini-B</li> </ul>
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558006801
UPC-12	845188007157
Country of origin	Sweden

**Supplies & accessories:**

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9× (50 µm) with case
- T198060; Close-up IR lens, 5.8× (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5× (25 µm) with case
- T197896; High temp option +300°C to 2000°C (+572°F to 3632°F) for FLIR A6xxsc and T6xx
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T198506; Li-Ion Battery pack 3.7V 29Wh
- T911230ACC; Memory card SDHC 4 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case for T6xx series
- T198495; Pouch for FLIR T6xx and T4xx series
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset

**P/N: 55903-5022**

© 2015, FLIR Systems, Inc.  
#55903-5022; r. 24597; en-US

- T911093; Tool belt
- 19250-100; IR Window 2 in.
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade

**P/N: 55903-5122**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 55903-5122  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR T620 is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 640 × 480 pixel infrared resolution. The FLIR T620 is flexible and can meet your every need, and has extensive communication options.

## Benefits:

- Highest performance with the latest technology: The FLIR T620 camera is equipped with the innovative "Multi Spectral Dynamic Imaging (MSX)" feature, which produces an image richer in detail than ever before.
- Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T620 allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image.
- Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools.

## Imaging and optical data

IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<40 mK @ +30°C (+86°F)
Field of view (FOV)	25° × 19°
Minimum focus distance	0.25 m (0.82 ft.)
Focal length	25 mm (0.97 in.)
Spatial resolution (IFOV)	0.68 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Automatic (one shot) or manual
Digital zoom	1–4× continuous
Digital image enhancement	Adaptive digital noise reduction



P/N: 55903-5122

© 2015, FLIR Systems, Inc.  
#55903-5122; r. 24597; en-US

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 µm
Detector pitch	17 µm
Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.
Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image
Measurement	
Object temperature range	<ul style="list-style-type: none"> <li>–40°C to +150°C (–40°F to +302°F)</li> <li>+100°C to +650°C (+212°F to +1202°F)</li> </ul>
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.
Measurement analysis	
Spotmeter	10
Area	5 areas (boxes or circles) with max./min./average
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets	The user can select and combine measurements from any number of spots/boxes/circles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava
Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible

**P/N: 55903-5122**

 © 2015, FLIR Systems, Inc.  
 #55903-5122; r. 24597; en-US

<b>Set-up</b>	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information
<b>Service functions</b>	
Camera software update	Use PC software FLIR Tools
<b>Storage of images</b>	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none"> <li>• Simultaneous storage of thermal and digital photo in same JPEG file.</li> <li>• Optional to store digital photo as a separate JPEG file.</li> </ul>
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image
<b>Image annotations (in still images)</b>	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> <li>• Instant Report (*.pdf file) in camera</li> <li>• Separate PC software with extensive report generation</li> </ul>
<b>Geographic Information System</b>	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image
<b>Video recording in camera</b>	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card
<b>Video streaming</b>	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none"> <li>• MPEG-4 using Wi-Fi</li> <li>• Uncompressed colorized video using USB</li> </ul>
Visual video streaming	<ul style="list-style-type: none"> <li>• MPEG-4 using Wi-Fi</li> <li>• Uncompressed colorized video using USB</li> </ul>
<b>Digital camera</b>	
Built-in digital camera	5 Mpixels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light

**P/N: 55903-5122**

 © 2015, FLIR Systems, Inc.  
 #55903-5122; r. 24597; en-US

<b>Laser pointer</b>	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)
<b>Data communication interfaces</b>	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards
<b>USB</b>	
USB	<ul style="list-style-type: none"> <li>USB-A: Connect external USB device</li> <li>USB Mini-B: Data transfer to and from PC / uncompressed colorized video</li> </ul>
USB, standard	USB 2.0 high speed
<b>Video output</b>	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible
<b>Radio</b>	
Wi-Fi	<ul style="list-style-type: none"> <li>Standard: 802.11 b/g</li> <li>Frequency range: 2412–2462 MHz</li> <li>Max. output power: 15 dBm</li> </ul>
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal
<b>Power system</b>	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
<b>Environmental data</b>	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none"> <li>ETSI EN 301 489-1 (radio)</li> <li>ETSI EN 301 489-17</li> <li>EN 61000-6-2 (Immunity)</li> <li>EN 61000-6-3 (Emission)</li> <li>FCC 47 CFR Part 15 Class B (Emission)</li> <li>ICES-003</li> </ul>
Radio spectrum	<ul style="list-style-type: none"> <li>ETSI EN 300 328</li> <li>FCC Part 15.247</li> <li>RSS-210</li> </ul>
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)

**P/N: 55903-5122**

 © 2015, FLIR Systems, Inc.  
 #55903-5122; r. 24597; en-US

Environmental data	
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1
Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Battery (2 ea.)</li> <li>• Battery charger</li> <li>• Bluetooth headset</li> <li>• Calibration certificate</li> <li>• FLIR Tools download card</li> <li>• User documentation CD-ROM</li> <li>• Printed documentation</li> <li>• HDMI-DVI cable</li> <li>• HDMI-HDMI cable</li> <li>• Hard transport case</li> <li>• Lens cap</li> <li>• Memory card</li> <li>• Neck strap</li> <li>• Power supply, incl. multi-plugs</li> <li>• Tripod adapter</li> <li>• USB cable, Std A to Mini-B</li> </ul>
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558006818
UPC-12	845188007164
Country of origin	Sweden

**Supplies & accessories:**

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9× (50 µm) with case
- T198060; Close-up IR lens, 5.8× (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5× (25 µm) with case
- T197896; High temp option +300°C to 2000°C (+572°F to 3632°F) for FLIR A6xxsc and T6xx
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T198506; Li-Ion Battery pack 3.7V 29Wh
- T911230ACC; Memory card SDHC 4 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case for T6xx series
- T198495; Pouch for FLIR T6xx and T4xx series
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset

---

**P/N: 55903-5122**

© 2015, FLIR Systems, Inc.  
#55903-5122; r. 24597; en-US

- T911093; Tool belt
- 19250-100; IR Window 2 in.
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade

**P/N: 55903-5222**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 55903-5222  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR T620 is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 640 × 480 pixel infrared resolution. The FLIR T620 is flexible and can meet your every need, and has extensive communication options.

## Benefits:

- Highest performance with the latest technology: The FLIR T620 is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before.
- Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T620 allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image.
- Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools.

## Imaging and optical data

IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<40 mK @ +30°C (+86°F)
Field of view (FOV)	45° × 34°
Minimum focus distance	0.15 m (0.49 ft.)
Focal length	13 mm (0.52 in.)
Spatial resolution (IFOV)	1.30 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Automatic (one shot) or manual
Digital zoom	1–4× continuous
Digital image enhancement	Adaptive digital noise reduction

P/N: 55903-5222

© 2015, FLIR Systems, Inc.  
#55903-5222; r. 24597; en-US

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 $\mu\text{m}$
Detector pitch	17 $\mu\text{m}$
Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.
Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image
Measurement	
Object temperature range	<ul style="list-style-type: none"> <li>–40°C to +150°C (–40°F to +302°F)</li> <li>+100°C to +650°C (+212°F to +1202°F)</li> </ul>
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.
Measurement analysis	
Spotmeter	10
Area	5 areas (boxes or circles) with max./min./average
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets	The user can select and combine measurements from any number of spots/boxes/circles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava
Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible

**P/N: 55903-5222**

 © 2015, FLIR Systems, Inc.  
 #55903-5222; r. 24597; en-US

<b>Set-up</b>	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information
<b>Service functions</b>	
Camera software update	Use PC software FLIR Tools
<b>Storage of images</b>	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none"> <li>• Simultaneous storage of thermal and digital photo in same JPEG file.</li> <li>• Optional to store digital photo as a separate JPEG file.</li> </ul>
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image
<b>Image annotations (in still images)</b>	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> <li>• Instant Report (*.pdf file) in camera</li> <li>• Separate PC software with extensive report generation</li> </ul>
<b>Geographic Information System</b>	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image
<b>Video recording in camera</b>	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card
<b>Video streaming</b>	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none"> <li>• MPEG-4 using Wi-Fi</li> <li>• Uncompressed colorized video using USB</li> </ul>
Visual video streaming	<ul style="list-style-type: none"> <li>• MPEG-4 using Wi-Fi</li> <li>• Uncompressed colorized video using USB</li> </ul>
<b>Digital camera</b>	
Built-in digital camera	5 Mpixels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light



**P/N: 55903-5222**

 © 2015, FLIR Systems, Inc.  
 #55903-5222; r. 24597; en-US

<b>Laser pointer</b>	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)
<b>Data communication interfaces</b>	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards
<b>USB</b>	
USB	<ul style="list-style-type: none"> <li>• USB-A: Connect external USB device</li> <li>• USB Mini-B: Data transfer to and from PC / uncompressed colorized video</li> </ul>
USB, standard	USB 2.0 high speed
<b>Video output</b>	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible
<b>Radio</b>	
Wi-Fi	<ul style="list-style-type: none"> <li>• Standard: 802.11 b/g</li> <li>• Frequency range: 2412–2462 MHz</li> <li>• Max. output power: 15 dBm</li> </ul>
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal
<b>Power system</b>	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
<b>Environmental data</b>	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none"> <li>• ETSI EN 301 489-1 (radio)</li> <li>• ETSI EN 301 489-17</li> <li>• EN 61000-6-2 (Immunity)</li> <li>• EN 61000-6-3 (Emission)</li> <li>• FCC 47 CFR Part 15 Class B (Emission)</li> <li>• ICES-003</li> </ul>
Radio spectrum	<ul style="list-style-type: none"> <li>• ETSI EN 300 328</li> <li>• FCC Part 15.247</li> <li>• RSS-210</li> </ul>
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)

**P/N: 55903-5222**

© 2015, FLIR Systems, Inc.  
#55903-5222; r. 24597; en-US

Environmental data	
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1
Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Battery (2 ea.)</li> <li>• Battery charger</li> <li>• Bluetooth headset</li> <li>• Calibration certificate</li> <li>• FLIR Tools download card</li> <li>• User documentation CD-ROM</li> <li>• Printed documentation</li> <li>• HDMI-DVI cable</li> <li>• HDMI-HDMI cable</li> <li>• Hard transport case</li> <li>• Lens cap</li> <li>• Memory card</li> <li>• Neck strap</li> <li>• Power supply, incl. multi-plugs</li> <li>• Tripod adapter</li> <li>• USB cable, Std A to Mini-B</li> </ul>
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558006825
UPC-12	845188007171
Country of origin	Sweden

**Supplies & accessories:**

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9× (50 µm) with case
- T198060; Close-up IR lens, 5.8× (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5× (25 µm) with case
- T197896; High temp option +300°C to 2000°C (+572°F to 3632°F) for FLIR A6xxsc and T6xx
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T198506; Li-Ion Battery pack 3.7V 29Wh
- T911230ACC; Memory card SDHC 4 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case for T6xx series
- T198495; Pouch for FLIR T6xx and T4xx series
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset

**P/N: 55903-5222**

© 2015, FLIR Systems, Inc.  
#55903-5222; r. 24597; en-US

- T911093; Tool belt
- 19250-100; IR Window 2 in.
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade

## P/N: 55903-5622

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 55903-5622  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The FLIR T620bx is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 640 × 480 pixel infrared resolution. The FLIR T620bx is flexible and can meet your every need, and has extensive communication options.

### Benefits:

- Highest performance with the latest technology: The FLIR T620bx is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before.
- Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T620bx allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image.
- Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools.

### Imaging and optical data

IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<30 mK @ +30°C (+86°F)
Field of view (FOV)	15° × 11°
Minimum focus distance	0.5 m (1.64 ft.)
Focal length	41 mm (1.63 in.)
Spatial resolution (IFOV)	0.41 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Automatic (one shot) or manual
Digital zoom	1–4× continuous
Digital image enhancement	Adaptive digital noise reduction

P/N: 55903-5622

© 2015, FLIR Systems, Inc.  
#55903-5622; r. 24597; en-US

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 µm
Detector pitch	17 µm
Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.
Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image
Measurement	
Object temperature range	<ul style="list-style-type: none"> <li>–40°C to +150°C (–40°F to +302°F)</li> <li>+100°C to +650°C (+212°F to +1202°F)</li> </ul>
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.
Measurement analysis	
Spotmeter	10
Area	5 areas (boxes or circles) with max./min./average
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets	The user can select and combine measurements from any number of spots/boxes/circles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava
Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible

P/N: 55903-5622

© 2015, FLIR Systems, Inc.  
#55903-5622; r. 24597; en-US

<b>Alarm</b>	
Humidity alarm	1 humidity alarm, including dew point alarm
Insulation alarm	1 insulation alarm
<b>Set-up</b>	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information
<b>Service functions</b>	
Camera software update	Use PC software FLIR Tools
<b>Storage of images</b>	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none"> <li>Simultaneous storage of thermal and digital photo in same JPEG file.</li> <li>Optional to store digital photo as a separate JPEG file.</li> </ul>
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image
<b>Image annotations (in still images)</b>	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> <li>Instant Report (*.pdf file) in camera</li> <li>Separate PC software with extensive report generation</li> </ul>
<b>Geographic Information System</b>	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image
<b>Video recording in camera</b>	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card
<b>Video streaming</b>	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>
Visual video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>

**P/N: 55903-5622**

 © 2015, FLIR Systems, Inc.  
 #55903-5622; r. 24597; en-US

<b>Digital camera</b>	
Built-in digital camera	5 Mpixels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light
<b>Laser pointer</b>	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)
<b>Data communication interfaces</b>	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards
<b>USB</b>	
USB	<ul style="list-style-type: none"> <li>USB-A: Connect external USB device</li> <li>USB Mini-B: Data transfer to and from PC / uncompressed colorized video</li> </ul>
USB, standard	USB 2.0 high speed
<b>Video output</b>	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible
<b>Radio</b>	
Wi-Fi	<ul style="list-style-type: none"> <li>Standard: 802.11 b/g</li> <li>Frequency range: 2412–2462 MHz</li> <li>Max. output power: 15 dBm</li> </ul>
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal
<b>Power system</b>	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
<b>Environmental data</b>	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none"> <li>ETSI EN 301 489-1 (radio)</li> <li>ETSI EN 301 489-17</li> <li>EN 61000-6-2 (Immunity)</li> <li>EN 61000-6-3 (Emission)</li> <li>FCC 47 CFR Part 15 Class B (Emission)</li> <li>ICES-003</li> </ul>

**P/N: 55903-5622**

 © 2015, FLIR Systems, Inc.  
 #55903-5622; r. 24597; en-US

Environmental data	
Radio spectrum	<ul style="list-style-type: none"> <li>ETSI EN 300 328</li> <li>FCC Part 15.247</li> <li>RSS-210</li> </ul>
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1
Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Infrared camera with lens</li> <li>Battery (2 ea.)</li> <li>Battery charger</li> <li>Bluetooth headset</li> <li>Calibration certificate</li> <li>FLIR Tools download card</li> <li>User documentation CD-ROM</li> <li>Printed documentation</li> <li>HDMI-DVI cable</li> <li>HDMI-HDMI cable</li> <li>Hard transport case</li> <li>Lens cap</li> <li>Memory card</li> <li>Neck strap</li> <li>Power supply, incl. multi-plugs</li> <li>Tripod adapter</li> <li>USB cable, Std A to Mini-B</li> </ul>
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558006863
UPC-12	845188007218
Country of origin	Sweden

**Supplies & accessories:**

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9× (50 µm) with case
- T198060; Close-up IR lens, 5.8× (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5× (25 µm) with case
- T197896; High temp option +300°C to 2000°C (+572°F to 3632°F) for FLIR A6xxsc and T6xx
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T198506; Li-Ion Battery pack 3.7V 29Wh
- T911230ACC; Memory card SDHC 4 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case for T6xx series



---

**P/N: 55903-5622**

© 2015, FLIR Systems, Inc.  
#55903-5622; r. 24597; en-US

- T198495; Pouch for FLIR T6xx and T4xx series
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade

**P/N: 55903-5722**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 55903-5722  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR T620bx is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 640 × 480 pixel infrared resolution. The FLIR T620bx is flexible and can meet your every need, and has extensive communication options.

## Benefits:

- Highest performance with the latest technology: The FLIR T620bx is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before.
- Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T620bx allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image.
- Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools.

## Imaging and optical data

IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<30 mK @ +30°C (+86°F)
Field of view (FOV)	25° × 19°
Minimum focus distance	0.25 m (0.82 ft.)
Focal length	25 mm (0.97 in.)
Spatial resolution (IFOV)	0.68 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Automatic (one shot) or manual
Digital zoom	1–4× continuous
Digital image enhancement	Adaptive digital noise reduction

P/N: 55903-5722

© 2015, FLIR Systems, Inc.  
#55903-5722; r. 24597; en-US

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 µm
Detector pitch	17 µm
Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.
Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image
Measurement	
Object temperature range	<ul style="list-style-type: none"> <li>–40°C to +150°C (–40°F to +302°F)</li> <li>+100°C to +650°C (+212°F to +1202°F)</li> </ul>
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.
Measurement analysis	
Spotmeter	10
Area	5 areas (boxes or circles) with max./min./average
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets	The user can select and combine measurements from any number of spots/boxes/circles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava
Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible

P/N: 55903-5722

© 2015, FLIR Systems, Inc.  
#55903-5722; r. 24597; en-US

<b>Alarm</b>	
Humidity alarm	1 humidity alarm, including dew point alarm
Insulation alarm	1 insulation alarm
<b>Set-up</b>	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information
<b>Service functions</b>	
Camera software update	Use PC software FLIR Tools
<b>Storage of images</b>	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none"> <li>Simultaneous storage of thermal and digital photo in same JPEG file.</li> <li>Optional to store digital photo as a separate JPEG file.</li> </ul>
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image
<b>Image annotations (in still images)</b>	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> <li>Instant Report (*.pdf file) in camera</li> <li>Separate PC software with extensive report generation</li> </ul>
<b>Geographic Information System</b>	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image
<b>Video recording in camera</b>	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card
<b>Video streaming</b>	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>
Visual video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>

**P/N: 55903-5722**

 © 2015, FLIR Systems, Inc.  
 #55903-5722; r. 24597; en-US

<b>Digital camera</b>	
Built-in digital camera	5 Mpixels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light
<b>Laser pointer</b>	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)
<b>Data communication interfaces</b>	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards
<b>USB</b>	
USB	<ul style="list-style-type: none"> <li>• USB-A: Connect external USB device</li> <li>• USB Mini-B: Data transfer to and from PC / uncompressed colorized video</li> </ul>
USB, standard	USB 2.0 high speed
<b>Video output</b>	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible
<b>Radio</b>	
Wi-Fi	<ul style="list-style-type: none"> <li>• Standard: 802.11 b/g</li> <li>• Frequency range: 2412–2462 MHz</li> <li>• Max. output power: 15 dBm</li> </ul>
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal
<b>Power system</b>	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
<b>Environmental data</b>	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none"> <li>• ETSI EN 301 489-1 (radio)</li> <li>• ETSI EN 301 489-17</li> <li>• EN 61000-6-2 (Immunity)</li> <li>• EN 61000-6-3 (Emission)</li> <li>• FCC 47 CFR Part 15 Class B (Emission)</li> <li>• ICES-003</li> </ul>

**P/N: 55903-5722**

 © 2015, FLIR Systems, Inc.  
 #55903-5722; r. 24597; en-US

Environmental data	
Radio spectrum	<ul style="list-style-type: none"> <li>ETSI EN 300 328</li> <li>FCC Part 15.247</li> <li>RSS-210</li> </ul>
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1
Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Infrared camera with lens</li> <li>Battery (2 ea.)</li> <li>Battery charger</li> <li>Bluetooth headset</li> <li>Calibration certificate</li> <li>FLIR Tools download card</li> <li>User documentation CD-ROM</li> <li>Printed documentation</li> <li>HDMI-DVI cable</li> <li>HDMI-HDMI cable</li> <li>Hard transport case</li> <li>Lens cap</li> <li>Memory card</li> <li>Neck strap</li> <li>Power supply, incl. multi-plugs</li> <li>Tripod adapter</li> <li>USB cable, Std A to Mini-B</li> </ul>
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558006870
UPC-12	845188007225
Country of origin	Sweden

**Supplies & accessories:**

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9× (50 µm) with case
- T198060; Close-up IR lens, 5.8× (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5× (25 µm) with case
- T197896; High temp option +300°C to 2000°C (+572°F to 3632°F) for FLIR A6xxsc and T6xx
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T198506; Li-Ion Battery pack 3.7V 29Wh
- T911230ACC; Memory card SDHC 4 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case for T6xx series

**P/N: 55903-5722**

© 2015, FLIR Systems, Inc.  
#55903-5722; r. 24597; en-US

- T198495; Pouch for FLIR T6xx and T4xx series
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in.
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade

**P/N: 55903-5822**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 55903-5822  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR T620bx is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 640 × 480 pixel infrared resolution. The FLIR T620bx is flexible and can meet your every need, and has extensive communication options.

## Benefits:

- Highest performance with the latest technology: The FLIR T620bx is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before.
- Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T620bx allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image.
- Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools.

## Imaging and optical data

IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<30 mK @ +30°C (+86°F)
Field of view (FOV)	45° × 34°
Minimum focus distance	0.15 m (0.49 ft.)
Focal length	13 mm (0.52 in.)
Spatial resolution (IFOV)	1.30 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Automatic (one shot) or manual
Digital zoom	1–4× continuous
Digital image enhancement	Adaptive digital noise reduction



P/N: 55903-5822

© 2015, FLIR Systems, Inc.  
#55903-5822; r. 24597; en-US

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 µm
Detector pitch	17 µm
Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.
Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image
Measurement	
Object temperature range	<ul style="list-style-type: none"> <li>–40°C to +150°C (–40°F to +302°F)</li> <li>+100°C to +650°C (+212°F to +1202°F)</li> </ul>
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.
Measurement analysis	
Spotmeter	10
Area	5 areas (boxes or circles) with max./min./average
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets	The user can select and combine measurements from any number of spots/boxes/circles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava
Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible

P/N: 55903-5822

© 2015, FLIR Systems, Inc.  
#55903-5822; r. 24597; en-US

<b>Alarm</b>	
Humidity alarm	1 humidity alarm, including dew point alarm
Insulation alarm	1 insulation alarm
<b>Set-up</b>	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information
<b>Service functions</b>	
Camera software update	Use PC software FLIR Tools
<b>Storage of images</b>	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none"> <li>Simultaneous storage of thermal and digital photo in same JPEG file.</li> <li>Optional to store digital photo as a separate JPEG file.</li> </ul>
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image
<b>Image annotations (in still images)</b>	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> <li>Instant Report (*.pdf file) in camera</li> <li>Separate PC software with extensive report generation</li> </ul>
<b>Geographic Information System</b>	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image
<b>Video recording in camera</b>	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card
<b>Video streaming</b>	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>
Visual video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>

**P/N: 55903-5822**

 © 2015, FLIR Systems, Inc.  
 #55903-5822; r. 24597; en-US

<b>Digital camera</b>	
Built-in digital camera	5 Mpixels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light
<b>Laser pointer</b>	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)
<b>Data communication interfaces</b>	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards
<b>USB</b>	
USB	<ul style="list-style-type: none"> <li>• USB-A: Connect external USB device</li> <li>• USB Mini-B: Data transfer to and from PC / uncompressed colorized video</li> </ul>
USB, standard	USB 2.0 high speed
<b>Video output</b>	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible
<b>Radio</b>	
Wi-Fi	<ul style="list-style-type: none"> <li>• Standard: 802.11 b/g</li> <li>• Frequency range: 2412–2462 MHz</li> <li>• Max. output power: 15 dBm</li> </ul>
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal
<b>Power system</b>	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
<b>Environmental data</b>	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none"> <li>• ETSI EN 301 489-1 (radio)</li> <li>• ETSI EN 301 489-17</li> <li>• EN 61000-6-2 (Immunity)</li> <li>• EN 61000-6-3 (Emission)</li> <li>• FCC 47 CFR Part 15 Class B (Emission)</li> <li>• ICES-003</li> </ul>

**P/N: 55903-5822**

 © 2015, FLIR Systems, Inc.  
 #55903-5822; r. 24597; en-US

Environmental data	
Radio spectrum	<ul style="list-style-type: none"> <li>ETSI EN 300 328</li> <li>FCC Part 15.247</li> <li>RSS-210</li> </ul>
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1
Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Infrared camera with lens</li> <li>Battery (2 ea.)</li> <li>Battery charger</li> <li>Bluetooth headset</li> <li>Calibration certificate</li> <li>FLIR Tools download card</li> <li>User documentation CD-ROM</li> <li>Printed documentation</li> <li>HDMI-DVI cable</li> <li>HDMI-HDMI cable</li> <li>Hard transport case</li> <li>Lens cap</li> <li>Memory card</li> <li>Neck strap</li> <li>Power supply, incl. multi-plugs</li> <li>Tripod adapter</li> <li>USB cable, Std A to Mini-B</li> </ul>
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558006887
UPC-12	845188007232
Country of origin	Sweden

**Supplies & accessories:**

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9× (50 µm) with case
- T198060; Close-up IR lens, 5.8× (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5× (25 µm) with case
- T197896; High temp option +300°C to 2000°C (+572°F to 3632°F) for FLIR A6xxsc and T6xx
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T198506; Li-Ion Battery pack 3.7V 29Wh
- T911230ACC; Memory card SDHC 4 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case for T6xx series

**P/N: 55903-5822**

© 2015, FLIR Systems, Inc.  
#55903-5822; r. 24597; en-US

- T198495; Pouch for FLIR T6xx and T4xx series
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade

**P/N: 55904-6222**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 55904-6222  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR T630 is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 640 × 480 pixel infrared resolution. The FLIR T630 is flexible and can meet your every need, and has extensive communication options.

### Benefits:

- Highest performance with the latest technology: The FLIR T630 is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before.
- Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T630 allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image.
- Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools.

## Imaging and optical data

IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<40 mK @ +30°C (+86°F)
Field of view (FOV)	15° × 11°
Minimum focus distance	0.5 m (1.64 ft.)
Focal length	41 mm (1.63 in.)
Spatial resolution (IFOV)	0.41 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Automatic (one shot) or manual
Digital zoom	1–8× continuous
Digital image enhancement	Adaptive digital noise reduction

## Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm

## Image presentation

Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Viewfinder	Built-in 800 × 480 pixels

**P/N: 55904-6222**

 © 2015, FLIR Systems, Inc.  
 #55904-6222; r. 24597; en-US

<b>Image presentation</b>	
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.
<b>Image presentation modes</b>	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image
<b>Measurement</b>	
Object temperature range	<ul style="list-style-type: none"> <li>• -40°C to +150°C (-40°F to +302°F)</li> <li>• +100°C to +650°C (+212°F to +1202°F)</li> </ul>
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.
<b>Measurement analysis</b>	
Spotmeter	5
Area	3 areas (boxes or circles) with max./min./average
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets	The user can select and combine measurements from any number of spots/boxes/circles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava
<b>Alarm</b>	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible
<b>Set-up</b>	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information
<b>Service functions</b>	
Camera software update	Use PC software FLIR Tools

P/N: 55904-6222

© 2015, FLIR Systems, Inc.  
#55904-6222; r. 24597; en-US

Storage of images	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none"> <li>Simultaneous storage of thermal and digital photo in same JPEG file.</li> <li>Optional to store digital photo as a separate JPEG file.</li> </ul>
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image

Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> <li>Instant Report (*.pdf file) in camera</li> <li>Separate PC software with extensive report generation</li> </ul>

Geographic Information System	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image

Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card

Video streaming	
Non-radiometric IR video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>
Visual video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>

Digital camera	
Built-in digital camera	5 Mpixels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors



**P/N: 55904-6222**

 © 2015, FLIR Systems, Inc.  
 #55904-6222; r. 24597; en-US

Data communication interfaces	
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards
USB	
USB	<ul style="list-style-type: none"> <li>• USB-A: Connect external USB device</li> <li>• USB Mini-B: Data transfer to and from PC / uncompressed colorized video</li> </ul>
USB, standard	USB 2.0 high speed
Video output	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible
Radio	
Wi-Fi	<ul style="list-style-type: none"> <li>• Standard: 802.11 b/g</li> <li>• Frequency range: 2412–2462 MHz</li> <li>• Max. output power: 15 dBm</li> </ul>
METERLINK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal
Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none"> <li>• ETSI EN 301 489-1 (radio)</li> <li>• ETSI EN 301 489-17</li> <li>• EN 61000-6-2 (Immunity)</li> <li>• EN 61000-6-3 (Emission)</li> <li>• FCC 47 CFR Part 15 Class B (Emission)</li> <li>• ICES-003</li> </ul>
Radio spectrum	<ul style="list-style-type: none"> <li>• ETSI EN 300 328</li> <li>• FCC Part 15.247</li> <li>• RSS-210</li> </ul>
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1
Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

**P/N: 55904-6222**

 © 2015, FLIR Systems, Inc.  
 #55904-6222; r. 24597; en-US

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Battery (2 ea.)</li> <li>• Battery charger</li> <li>• Bluetooth headset</li> <li>• Calibration certificate</li> <li>• FLIR Tools download card</li> <li>• User documentation CD-ROM</li> <li>• Printed documentation</li> <li>• HDMI-DVI cable</li> <li>• HDMI-HDMI cable</li> <li>• Hard transport case</li> <li>• Large eyecap</li> <li>• Lens cap</li> <li>• Memory card</li> <li>• Neck strap</li> <li>• Power supply, incl. multi-plugs</li> <li>• Tripod adapter</li> <li>• USB cable, Std A to Mini-B</li> </ul>
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558006924
UPC-12	845188007270
Country of origin	Sweden

**Supplies & accessories:**

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9× (50 µm) with case
- T198060; Close-up IR lens, 5.8× (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5× (25 µm) with case
- T197896; High temp option +300°C to 2000°C (+572°F to 3632°F) for FLIR A6xxsc and T6xx
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T198506; Li-Ion Battery pack 3.7V 29Wh
- T911230ACC; Memory card SDHC 4 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case for T6xx series
- T198495; Pouch for FLIR T6xx and T4xx series
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in.
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)



---

**P/N: 55904-6222**

© 2015, FLIR Systems, Inc.  
#55904-6222; r. 24597; en-US

- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade

**P/N: 55904-6322**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 55904-6322  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR T630 is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 640 × 480 pixel infrared resolution. The FLIR T630 is flexible and can meet your every need, and has extensive communication options.

### Benefits:

- Highest performance with the latest technology: The FLIR T630 is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before.
- Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T630 allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image.
- Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools.

## Imaging and optical data

IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<40 mK @ +30°C (+86°F)
Field of view (FOV)	25° × 19°
Minimum focus distance	0.25 m (0.82 ft.)
Focal length	25 mm (0.97 in.)
Spatial resolution (IFOV)	0.68 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Automatic (one shot) or manual
Digital zoom	1–8× continuous
Digital image enhancement	Adaptive digital noise reduction

## Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm

## Image presentation

Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Viewfinder	Built-in 800 × 480 pixels

P/N: 55904-6322

© 2015, FLIR Systems, Inc.  
#55904-6322; r. 24597; en-US

<b>Image presentation</b>	
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.
<b>Image presentation modes</b>	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image
<b>Measurement</b>	
Object temperature range	<ul style="list-style-type: none"> <li>–40°C to +150°C (–40°F to +302°F)</li> <li>+100°C to +650°C (+212°F to +1202°F)</li> </ul>
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.
<b>Measurement analysis</b>	
Spotmeter	5
Area	3 areas (boxes or circles) with max./min./average
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets	The user can select and combine measurements from any number of spots/boxes/circles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava
<b>Alarm</b>	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible
<b>Set-up</b>	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information
<b>Service functions</b>	
Camera software update	Use PC software FLIR Tools

**P/N: 55904-6322**

 © 2015, FLIR Systems, Inc.  
 #55904-6322; r. 24597; en-US

<b>Storage of images</b>	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none"> <li>Simultaneous storage of thermal and digital photo in same JPEG file.</li> <li>Optional to store digital photo as a separate JPEG file.</li> </ul>
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image
<b>Image annotations (in still images)</b>	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> <li>Instant Report (*.pdf file) in camera</li> <li>Separate PC software with extensive report generation</li> </ul>
<b>Geographic Information System</b>	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image
<b>Video recording in camera</b>	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card
<b>Video streaming</b>	
Non-radiometric IR video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>
Visual video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>
<b>Digital camera</b>	
Built-in digital camera	5 Mpixels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light
<b>Laser pointer</b>	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)
<b>Data communication interfaces</b>	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors

**P/N: 55904-6322**

 © 2015, FLIR Systems, Inc.  
 #55904-6322; r. 24597; en-US

Data communication interfaces	
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards
USB	
USB	<ul style="list-style-type: none"> <li>• USB-A: Connect external USB device</li> <li>• USB Mini-B: Data transfer to and from PC / uncompressed colorized video</li> </ul>
USB, standard	USB 2.0 high speed
Video output	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible
Radio	
Wi-Fi	<ul style="list-style-type: none"> <li>• Standard: 802.11 b/g</li> <li>• Frequency range: 2412–2462 MHz</li> <li>• Max. output power: 15 dBm</li> </ul>
METERLINK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal
Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none"> <li>• ETSI EN 301 489-1 (radio)</li> <li>• ETSI EN 301 489-17</li> <li>• EN 61000-6-2 (Immunity)</li> <li>• EN 61000-6-3 (Emission)</li> <li>• FCC 47 CFR Part 15 Class B (Emission)</li> <li>• ICES-003</li> </ul>
Radio spectrum	<ul style="list-style-type: none"> <li>• ETSI EN 300 328</li> <li>• FCC Part 15.247</li> <li>• RSS-210</li> </ul>
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1
Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

**P/N: 55904-6322**

 © 2015, FLIR Systems, Inc.  
 #55904-6322; r. 24597; en-US

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Battery (2 ea.)</li> <li>• Battery charger</li> <li>• Bluetooth headset</li> <li>• Calibration certificate</li> <li>• FLIR Tools download card</li> <li>• User documentation CD-ROM</li> <li>• Printed documentation</li> <li>• HDMI-DVI cable</li> <li>• HDMI-HDMI cable</li> <li>• Hard transport case</li> <li>• Large eyecap</li> <li>• Lens cap</li> <li>• Memory card</li> <li>• Neck strap</li> <li>• Power supply, incl. multi-plugs</li> <li>• Tripod adapter</li> <li>• USB cable, Std A to Mini-B</li> </ul>
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558006931
UPC-12	845188007287
Country of origin	Sweden

**Supplies & accessories:**

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9× (50 µm) with case
- T198060; Close-up IR lens, 5.8× (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5× (25 µm) with case
- T197896; High temp option +300°C to 2000°C (+572°F to 3632°F) for FLIR A6xxsc and T6xx
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T198506; Li-Ion Battery pack 3.7V 29Wh
- T911230ACC; Memory card SDHC 4 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case for T6xx series
- T198495; Pouch for FLIR T6xx and T4xx series
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in.
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)





---

**P/N: 55904-6322**

© 2015, FLIR Systems, Inc.  
#55904-6322; r. 24597; en-US

- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade

**P/N: 55904-6422**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 55904-6422  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR T630 is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 640 × 480 pixel infrared resolution. The FLIR T630 is flexible and can meet your every need, and has extensive communication options.

### Benefits:

- Highest performance with the latest technology: The FLIR T630 is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before.
- Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T630 allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image.
- Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools.

## Imaging and optical data

IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<40 mK @ +30°C (+86°F)
Field of view (FOV)	45° × 34°
Minimum focus distance	0.15 m (0.49 ft.)
Focal length	13 mm (0.52 in.)
Spatial resolution (IFOV)	1.30 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Automatic (one shot) or manual
Digital zoom	1–8× continuous
Digital image enhancement	Adaptive digital noise reduction

## Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 µm
Detector pitch	17 µm

## Image presentation

Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Viewfinder	Built-in 800 × 480 pixels

**P/N: 55904-6422**

 © 2015, FLIR Systems, Inc.  
 #55904-6422; r. 24597; en-US

<b>Image presentation</b>	
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.
<b>Image presentation modes</b>	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image
<b>Measurement</b>	
Object temperature range	<ul style="list-style-type: none"> <li>• -40°C to +150°C (-40°F to +302°F)</li> <li>• +100°C to +650°C (+212°F to +1202°F)</li> </ul>
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.
<b>Measurement analysis</b>	
Spotmeter	5
Area	3 areas (boxes or circles) with max./min./average
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets	The user can select and combine measurements from any number of spots/boxes/circles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava
<b>Alarm</b>	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible
<b>Set-up</b>	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information
<b>Service functions</b>	
Camera software update	Use PC software FLIR Tools

**P/N: 55904-6422**

 © 2015, FLIR Systems, Inc.  
 #55904-6422; r. 24597; en-US

<b>Storage of images</b>	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none"> <li>Simultaneous storage of thermal and digital photo in same JPEG file.</li> <li>Optional to store digital photo as a separate JPEG file.</li> </ul>
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image
<b>Image annotations (in still images)</b>	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> <li>Instant Report (*.pdf file) in camera</li> <li>Separate PC software with extensive report generation</li> </ul>
<b>Geographic Information System</b>	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image
<b>Video recording in camera</b>	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card
<b>Video streaming</b>	
Non-radiometric IR video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>
Visual video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>
<b>Digital camera</b>	
Built-in digital camera	5 Mpixels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light
<b>Laser pointer</b>	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)
<b>Data communication interfaces</b>	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors

**P/N: 55904-6422**

 © 2015, FLIR Systems, Inc.  
 #55904-6422; r. 24597; en-US

Data communication interfaces	
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards
USB	
USB	<ul style="list-style-type: none"> <li>• USB-A: Connect external USB device</li> <li>• USB Mini-B: Data transfer to and from PC / uncompressed colorized video</li> </ul>
USB, standard	USB 2.0 high speed
Video output	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible
Radio	
Wi-Fi	<ul style="list-style-type: none"> <li>• Standard: 802.11 b/g</li> <li>• Frequency range: 2412–2462 MHz</li> <li>• Max. output power: 15 dBm</li> </ul>
METERLINK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal
Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none"> <li>• ETSI EN 301 489-1 (radio)</li> <li>• ETSI EN 301 489-17</li> <li>• EN 61000-6-2 (Immunity)</li> <li>• EN 61000-6-3 (Emission)</li> <li>• FCC 47 CFR Part 15 Class B (Emission)</li> <li>• ICES-003</li> </ul>
Radio spectrum	<ul style="list-style-type: none"> <li>• ETSI EN 300 328</li> <li>• FCC Part 15.247</li> <li>• RSS-210</li> </ul>
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1
Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

**P/N: 55904-6422**

 © 2015, FLIR Systems, Inc.  
 #55904-6422; r. 24597; en-US

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Battery (2 ea.)</li> <li>• Battery charger</li> <li>• Bluetooth headset</li> <li>• Calibration certificate</li> <li>• FLIR Tools download card</li> <li>• User documentation CD-ROM</li> <li>• Printed documentation</li> <li>• HDMI-DVI cable</li> <li>• HDMI-HDMI cable</li> <li>• Hard transport case</li> <li>• Large eyecap</li> <li>• Lens cap</li> <li>• Memory card</li> <li>• Neck strap</li> <li>• Power supply, incl. multi-plugs</li> <li>• Tripod adapter</li> <li>• USB cable, Std A to Mini-B</li> </ul>
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558006948
UPC-12	845188007294
Country of origin	Sweden

**Supplies & accessories:**

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9× (50 µm) with case
- T198060; Close-up IR lens, 5.8× (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5× (25 µm) with case
- T197896; High temp option +300°C to 2000°C (+572°F to 3632°F) for FLIR A6xxsc and T6xx
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T198506; Li-Ion Battery pack 3.7V 29Wh
- T911230ACC; Memory card SDHC 4 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case for T6xx series
- T198495; Pouch for FLIR T6xx and T4xx series
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)



---

**P/N: 55904-6422**

© 2015, FLIR Systems, Inc.  
#55904-6422; r. 24597; en-US

- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade

## P/N: 55904-8023

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 55904-8023  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The FLIR T630sc is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and feature-rich flexibility with superior image quality of 640 × 480 pixel infrared resolution. High accuracy and sensitivity together with streaming options make the FLIR T630sc well suited for advanced research and development.

### Benefits:

- Tailor made for research and development: The FLIR T630sc has high accuracy and high sensitivity to accurately measure the smallest temperature differences.
- Flexible and feature rich: A wide variety of measuring and analysis functions makes the camera flexible and able to meet your every need. A programmable button provides easy access to favorite functions.
- Highest performance with the latest technology: The FLIR T630sc is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. Continuous auto-focus makes the FLIR T630sc the first fully automatic infrared camera on the market.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T630sc allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image.
- Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools.

### Imaging and optical data

IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<30 mK @ +30°C (+86°F)
Field of view (FOV)	15° × 11°
Minimum focus distance	0.5 m (1.64 ft.)
Focal length	41 mm (1.63 in.)
Spatial resolution (IFOV)	0.41 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Automatic (one shot) or manual
Digital zoom	1–4× continuous
Digital image enhancement	Adaptive digital noise reduction



**P/N: 55904-8023**

© 2015, FLIR Systems, Inc.  
#55904-8023; r. 24597; en-US

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 $\mu\text{m}$
Detector pitch	17 $\mu\text{m}$
Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.
Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image
Measurement	
Object temperature range	<ul style="list-style-type: none"> <li>–40°C to +150°C (–40°F to +302°F)</li> <li>+100°C to +650°C (+212°F to +1202°F)</li> </ul>
Accuracy	<ul style="list-style-type: none"> <li>±1°C (±1.8°F) or ±1% of reading for limited temperature range.</li> <li>±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.</li> </ul>
Measurement analysis	
Spotmeter	10
Area	5 areas (boxes or circles) with max./min./average
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets	The user can select and combine measurements from any number of spots/boxes/circles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava

P/N: 55904-8023

© 2015, FLIR Systems, Inc.  
#55904-8023; r. 24597; en-US

Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible
Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information
Service functions	
Camera software update	Use PC software FLIR Tools
Storage of images	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none"> <li>Simultaneous storage of thermal and digital photo in same JPEG file.</li> <li>Optional to store digital photo as a separate JPEG file.</li> </ul>
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image
Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> <li>Instant Report (*.pdf file) in camera</li> <li>Separate PC software with extensive report generation</li> </ul>
Geographic Information System	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image
Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card
Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>
Visual video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>

**P/N: 55904-8023**

 © 2015, FLIR Systems, Inc.  
 #55904-8023; r. 24597; en-US

<b>Digital camera</b>	
Built-in digital camera	5 Mpixels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light
<b>Laser pointer</b>	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)
<b>Data communication interfaces</b>	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards
<b>USB</b>	
USB	<ul style="list-style-type: none"> <li>• USB-A: Connect external USB device</li> <li>• USB Mini-B: Data transfer to and from PC / uncompressed colorized video</li> </ul>
USB, standard	USB 2.0 high speed
<b>Video output</b>	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible
<b>Radio</b>	
Wi-Fi	<ul style="list-style-type: none"> <li>• Standard: 802.11 b/g</li> <li>• Frequency range: 2412–2462 MHz</li> <li>• Max. output power: 15 dBm</li> </ul>
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal
<b>Power system</b>	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
<b>Environmental data</b>	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none"> <li>• ETSI EN 301 489-1 (radio)</li> <li>• ETSI EN 301 489-17</li> <li>• EN 61000-6-2 (Immunity)</li> <li>• EN 61000-6-3 (Emission)</li> <li>• FCC 47 CFR Part 15 Class B (Emission)</li> <li>• ICES-003</li> </ul>

**P/N: 55904-8023**

© 2015, FLIR Systems, Inc.  
#55904-8023; r. 24597; en-US

Environmental data	
Radio spectrum	<ul style="list-style-type: none"> <li>ETSI EN 300 328</li> <li>FCC Part 15.247</li> <li>RSS-210</li> </ul>
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1
Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Infrared camera with lens</li> <li>Battery (2 ea.)</li> <li>Battery charger</li> <li>Bluetooth headset</li> <li>Calibration certificate</li> <li>FLIR ResearchIR Max 4</li> <li>FLIR Tools download card</li> <li>User documentation CD-ROM</li> <li>Printed documentation</li> <li>HDMI-DVI cable</li> <li>HDMI-HDMI cable</li> <li>Hard transport case</li> <li>Lens cap</li> <li>Memory card</li> <li>Neck strap</li> <li>Power supply, incl. multi-plugs</li> <li>Tripod adapter</li> <li>USB cable, Std A to Mini-B</li> </ul>
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558008737
UPC-12	845188009250
Country of origin	Sweden

**Supplies & accessories:**

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9× (50 µm) with case
- T198060; Close-up IR lens, 5.8× (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5× (25 µm) with case
- T197896; High temp option +300°C to 2000°C (+572°F to 3632°F) for FLIR A6xxsc and T6xx
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T198506; Li-Ion Battery pack 3.7V 29Wh
- T911230ACC; Memory card SDHC 4 GB
- T910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m

**P/N: 55904-8023**

© 2015, FLIR Systems, Inc.  
#55904-8023; r. 24597; en-US

- T198625ACC; Hard transport case for T6xx series
- T198495; Pouch for FLIR T6xx and T4xx series
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in.
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade

## P/N: 55904-8123

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 55904-8123  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The FLIR T630sc is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and feature-rich flexibility with superior image quality of 640 × 480 pixel infrared resolution. High accuracy and sensitivity together with streaming options make the FLIR T630sc well suited for advanced research and development.

### Benefits:

- Tailor made for research and development: The FLIR T630sc has high accuracy and high sensitivity to accurately measure the smallest temperature differences.
- Flexible and feature rich: A wide variety of measuring and analysis functions makes the camera flexible and able to meet your every need. A programmable button provides easy access to favorite functions.
- Highest performance with the latest technology: The FLIR T630sc is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. Continuous auto-focus makes the FLIR T630sc the first fully automatic infrared camera on the market.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T630sc allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image.
- Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools.

### Imaging and optical data

IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<30 mK @ +30°C (+86°F)
Field of view (FOV)	25° × 19°
Minimum focus distance	0.25 m (0.82 ft.)
Focal length	25 mm (0.97 in.)
Spatial resolution (IFOV)	0.68 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Automatic (one shot) or manual
Digital zoom	1–4× continuous
Digital image enhancement	Adaptive digital noise reduction

P/N: 55904-8123

© 2015, FLIR Systems, Inc.  
#55904-8123; r. 24597; en-US

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 µm
Detector pitch	17 µm
Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.
Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image
Measurement	
Object temperature range	<ul style="list-style-type: none"> <li>–40°C to +150°C (–40°F to +302°F)</li> <li>+100°C to +650°C (+212°F to +1202°F)</li> </ul>
Accuracy	<ul style="list-style-type: none"> <li>±1°C (±1.8°F) or ±1% of reading for limited temperature range.</li> <li>±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.</li> </ul>
Measurement analysis	
Spotmeter	10
Area	5 areas (boxes or circles) with max./min./average
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets	The user can select and combine measurements from any number of spots/boxes/circles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava

P/N: 55904-8123

© 2015, FLIR Systems, Inc.  
#55904-8123; r. 24597; en-US

<b>Alarm</b>	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible
<b>Set-up</b>	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information
<b>Service functions</b>	
Camera software update	Use PC software FLIR Tools
<b>Storage of images</b>	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none"> <li>Simultaneous storage of thermal and digital photo in same JPEG file.</li> <li>Optional to store digital photo as a separate JPEG file.</li> </ul>
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image
<b>Image annotations (in still images)</b>	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> <li>Instant Report (*.pdf file) in camera</li> <li>Separate PC software with extensive report generation</li> </ul>
<b>Geographic Information System</b>	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image
<b>Video recording in camera</b>	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card
<b>Video streaming</b>	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>
Visual video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>



**P/N: 55904-8123**

 © 2015, FLIR Systems, Inc.  
 #55904-8123; r. 24597; en-US

<b>Digital camera</b>	
Built-in digital camera	5 Mpixels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light
<b>Laser pointer</b>	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)
<b>Data communication interfaces</b>	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards
<b>USB</b>	
USB	<ul style="list-style-type: none"> <li>• USB-A: Connect external USB device</li> <li>• USB Mini-B: Data transfer to and from PC / uncompressed colorized video</li> </ul>
USB, standard	USB 2.0 high speed
<b>Video output</b>	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible
<b>Radio</b>	
Wi-Fi	<ul style="list-style-type: none"> <li>• Standard: 802.11 b/g</li> <li>• Frequency range: 2412–2462 MHz</li> <li>• Max. output power: 15 dBm</li> </ul>
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal
<b>Power system</b>	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
<b>Environmental data</b>	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none"> <li>• ETSI EN 301 489-1 (radio)</li> <li>• ETSI EN 301 489-17</li> <li>• EN 61000-6-2 (Immunity)</li> <li>• EN 61000-6-3 (Emission)</li> <li>• FCC 47 CFR Part 15 Class B (Emission)</li> <li>• ICES-003</li> </ul>

**P/N: 55904-8123**

© 2015, FLIR Systems, Inc.  
#55904-8123; r. 24597; en-US

Environmental data	
Radio spectrum	<ul style="list-style-type: none"> <li>ETSI EN 300 328</li> <li>FCC Part 15.247</li> <li>RSS-210</li> </ul>
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1
Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Infrared camera with lens</li> <li>Battery (2 ea.)</li> <li>Battery charger</li> <li>Bluetooth headset</li> <li>Calibration certificate</li> <li>FLIR ResearchIR Max 4</li> <li>FLIR Tools download card</li> <li>User documentation CD-ROM</li> <li>Printed documentation</li> <li>HDMI-DVI cable</li> <li>HDMI-HDMI cable</li> <li>Hard transport case</li> <li>Lens cap</li> <li>Memory card</li> <li>Neck strap</li> <li>Power supply, incl. multi-plugs</li> <li>Tripod adapter</li> <li>USB cable, Std A to Mini-B</li> </ul>
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558008713
UPC-12	845188009236
Country of origin	Sweden

**Supplies & accessories:**

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9× (50 µm) with case
- T198060; Close-up IR lens, 5.8× (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5× (25 µm) with case
- T197896; High temp option +300°C to 2000°C (+572°F to 3632°F) for FLIR A6xxsc and T6xx
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T198506; Li-Ion Battery pack 3.7V 29Wh
- T911230ACC; Memory card SDHC 4 GB
- T910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m

**P/N: 55904-8123**

© 2015, FLIR Systems, Inc.  
#55904-8123; r. 24597; en-US

- T198625ACC; Hard transport case for T6xx series
- T198495; Pouch for FLIR T6xx and T4xx series
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in.
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade

## P/N: 55904-8223

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 55904-8223  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The FLIR T630sc is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and feature-rich flexibility with superior image quality of 640 × 480 pixel infrared resolution. High accuracy and sensitivity together with streaming options make the FLIR T630sc well suited for advanced research and development.

### Benefits:

- Tailor made for research and development: The FLIR T630sc has high accuracy and high sensitivity to accurately measure the smallest temperature differences.
- Flexible and feature rich: A wide variety of measuring and analysis functions makes the camera flexible and able to meet your every need. A programmable button provides easy access to favorite functions.
- Highest performance with the latest technology: The FLIR T630sc is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. Continuous auto-focus makes the FLIR T630sc the first fully automatic infrared camera on the market.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T630sc allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image.
- Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools.

### Imaging and optical data

IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<30 mK @ +30°C (+86°F)
Field of view (FOV)	45° × 34°
Minimum focus distance	0.15 m (0.49 ft.)
Focal length	13 mm (0.52 in.)
Spatial resolution (IFOV)	1.30 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Automatic (one shot) or manual
Digital zoom	1–4× continuous
Digital image enhancement	Adaptive digital noise reduction

P/N: 55904-8223

© 2015, FLIR Systems, Inc.  
#55904-8223; r. 24597; en-US

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 $\mu\text{m}$
Detector pitch	17 $\mu\text{m}$
Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.
Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image
Measurement	
Object temperature range	<ul style="list-style-type: none"> <li>–40°C to +150°C (–40°F to +302°F)</li> <li>+100°C to +650°C (+212°F to +1202°F)</li> </ul>
Accuracy	<ul style="list-style-type: none"> <li>±1°C (±1.8°F) or ±1% of reading for limited temperature range.</li> <li>±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.</li> </ul>
Measurement analysis	
Spotmeter	10
Area	5 areas (boxes or circles) with max./min./average
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets	The user can select and combine measurements from any number of spots/boxes/circles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava

**P/N: 55904-8223**

 © 2015, FLIR Systems, Inc.  
 #55904-8223; r. 24597; en-US

<b>Alarm</b>	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible
<b>Set-up</b>	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information
<b>Service functions</b>	
Camera software update	Use PC software FLIR Tools
<b>Storage of images</b>	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none"> <li>Simultaneous storage of thermal and digital photo in same JPEG file.</li> <li>Optional to store digital photo as a separate JPEG file.</li> </ul>
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image
<b>Image annotations (in still images)</b>	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> <li>Instant Report (*.pdf file) in camera</li> <li>Separate PC software with extensive report generation</li> </ul>
<b>Geographic Information System</b>	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image
<b>Video recording in camera</b>	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card
<b>Video streaming</b>	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>
Visual video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>

**P/N: 55904-8223**

 © 2015, FLIR Systems, Inc.  
 #55904-8223; r. 24597; en-US

<b>Digital camera</b>	
Built-in digital camera	5 Mpixels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light
<b>Laser pointer</b>	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)
<b>Data communication interfaces</b>	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards
<b>USB</b>	
USB	<ul style="list-style-type: none"> <li>• USB-A: Connect external USB device</li> <li>• USB Mini-B: Data transfer to and from PC / uncompressed colorized video</li> </ul>
USB, standard	USB 2.0 high speed
<b>Video output</b>	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible
<b>Radio</b>	
Wi-Fi	<ul style="list-style-type: none"> <li>• Standard: 802.11 b/g</li> <li>• Frequency range: 2412–2462 MHz</li> <li>• Max. output power: 15 dBm</li> </ul>
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal
<b>Power system</b>	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
<b>Environmental data</b>	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none"> <li>• ETSI EN 301 489-1 (radio)</li> <li>• ETSI EN 301 489-17</li> <li>• EN 61000-6-2 (Immunity)</li> <li>• EN 61000-6-3 (Emission)</li> <li>• FCC 47 CFR Part 15 Class B (Emission)</li> <li>• ICES-003</li> </ul>

**P/N: 55904-8223**

© 2015, FLIR Systems, Inc.  
#55904-8223; r. 24597; en-US

Environmental data	
Radio spectrum	<ul style="list-style-type: none"> <li>ETSI EN 300 328</li> <li>FCC Part 15.247</li> <li>RSS-210</li> </ul>
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1
Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Infrared camera with lens</li> <li>Battery (2 ea.)</li> <li>Battery charger</li> <li>Bluetooth headset</li> <li>Calibration certificate</li> <li>FLIR ResearchIR Max 4</li> <li>FLIR Tools download card</li> <li>User documentation CD-ROM</li> <li>Printed documentation</li> <li>HDMI-DVI cable</li> <li>HDMI-HDMI cable</li> <li>Hard transport case</li> <li>Lens cap</li> <li>Memory card</li> <li>Neck strap</li> <li>Power supply, incl. multi-plugs</li> <li>Tripod adapter</li> <li>USB cable, Std A to Mini-B</li> </ul>
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558008744
UPC-12	845188009267
Country of origin	Sweden

**Supplies & accessories:**

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9× (50 µm) with case
- T198060; Close-up IR lens, 5.8× (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5× (25 µm) with case
- T197896; High temp option +300°C to 2000°C (+572°F to 3632°F) for FLIR A6xxsc and T6xx
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T198506; Li-Ion Battery pack 3.7V 29Wh
- T911230ACC; Memory card SDHC 4 GB
- T910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m



**P/N: 55904-8223**

© 2015, FLIR Systems, Inc.  
#55904-8223; r. 24597; en-US

- T198625ACC; Hard transport case for T6xx series
- T198495; Pouch for FLIR T6xx and T4xx series
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in.
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade

**P/N: 55904-6822**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 55904-6822  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR T640 is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 640 × 480 pixel infrared resolution. The FLIR T640 is flexible and can meet your every need, and has extensive communication options.

### Benefits:

- Highest performance with the latest technology: The FLIR T640 is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. Continuous auto-focus makes the FLIR T640 the first fully automatic infrared camera on the market.
- Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T640 allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image.
- Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools.

## Imaging and optical data

IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<30 mK @ +30°C (+86°F)
Field of view (FOV)	15° × 11°
Minimum focus distance	0.5 m (1.64 ft.)
Focal length	41 mm (1.63 in.)
Spatial resolution (IFOV)	0.41 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Continuous, one shot or manual
Digital zoom	1–8× continuous
Digital image enhancement	Adaptive digital noise reduction

## Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 µm
Detector pitch	17 µm

## Image presentation

Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait

**P/N: 55904-6822**

 © 2015, FLIR Systems, Inc.  
 #55904-6822; r. 24597; en-US

Image presentation	
Viewfinder	Built-in 800 × 480 pixels
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.
Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image
Measurement	
Object temperature range	<ul style="list-style-type: none"> <li>• -40°C to +150°C (-40°F to +302°F)</li> <li>• +100°C to +650°C (+212°F to +1202°F)</li> <li>• +300°C to +2000°C (+572°F to +3632°F)</li> </ul>
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.
Measurement analysis	
Spotmeter	10
Area	5 areas (boxes or circles) with max./min./average
Profile	1 line profile with max/min temp
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area and profile
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets	The user can select and combine measurements from any number of spots/boxes/circles/profiles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava
Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible
Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information

**P/N: 55904-6822**

 © 2015, FLIR Systems, Inc.  
 #55904-6822; r. 24597; en-US

Service functions	
Camera software update	Use PC software FLIR Tools
Storage of images	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none"> <li>Simultaneous storage of thermal and digital photo in same JPEG file.</li> <li>Optional to store digital photo as a separate JPEG file.</li> </ul>
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image
Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> <li>Instant Report (*.pdf file) in camera</li> <li>Separate PC software with extensive report generation</li> </ul>
Geographic Information System	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image
Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card
Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>
Visual video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>
Digital camera	
Built-in digital camera	5 Mpixels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light
Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

**P/N: 55904-6822**

 © 2015, FLIR Systems, Inc.  
 #55904-6822; r. 24597; en-US

Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards
USB	
USB	<ul style="list-style-type: none"> <li>• USB-A: Connect external USB device</li> <li>• USB Mini-B: Data transfer to and from PC / uncompressed colorized video</li> </ul>
USB, standard	USB 2.0 high speed
Video output	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible
Radio	
Wi-Fi	<ul style="list-style-type: none"> <li>• Standard: 802.11 b/g</li> <li>• Frequency range: 2412–2462 MHz</li> <li>• Max. output power: 15 dBm</li> </ul>
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal
Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none"> <li>• ETSI EN 301 489-1 (radio)</li> <li>• ETSI EN 301 489-17</li> <li>• EN 61000-6-2 (Immunity)</li> <li>• EN 61000-6-3 (Emission)</li> <li>• FCC 47 CFR Part 15 Class B (Emission)</li> <li>• ICES-003</li> </ul>
Radio spectrum	<ul style="list-style-type: none"> <li>• ETSI EN 300 328</li> <li>• FCC Part 15.247</li> <li>• RSS-210</li> </ul>
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1
Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)

**P/N: 55904-6822**

© 2015, FLIR Systems, Inc.  
#55904-6822; r. 24597; en-US

Physical data	
Tripod mounting	UNC ¼"-20
Housing material	Magnesium
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Battery (2 ea.)</li> <li>• Battery charger</li> <li>• Bluetooth headset</li> <li>• Calibration certificate</li> <li>• FLIR Tools download card</li> <li>• User documentation CD-ROM</li> <li>• Printed documentation</li> <li>• HDMI-DVI cable</li> <li>• HDMI-HDMI cable</li> <li>• Hard transport case</li> <li>• Large eyecap</li> <li>• Lens cap</li> <li>• Memory card</li> <li>• Neck strap</li> <li>• Power supply, incl. multi-plugs</li> <li>• Tripod adapter</li> <li>• USB cable, Std A to Mini-B</li> </ul>
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558006986
UPC-12	845188007331
Country of origin	Sweden

#### Supplies & accessories:

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9× (50 µm) with case
- T198060; Close-up IR lens, 5.8× (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5× (25 µm) with case
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T198506; Li-Ion Battery pack 3.7V 29Wh
- T911230ACC; Memory card SDHC 4 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case for T6xx series
- T198495; Pouch for FLIR T6xx and T4xx series
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198586; FLIR Reporter Professional (license only)



---

**P/N: 55904-6822**

© 2015, FLIR Systems, Inc.  
#55904-6822; r. 24597; en-US

- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade

**P/N: 55904-6922**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 55904-6922  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR T640 is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 640 × 480 pixel infrared resolution. The FLIR T640 is flexible and can meet your every need, and has extensive communication options.

### Benefits:

- Highest performance with the latest technology: The FLIR T640 is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. Continuous auto-focus makes the FLIR T640 the first fully automatic infrared camera on the market.
- Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T640 allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image.
- Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools.

## Imaging and optical data

IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<30 mK @ +30°C (+86°F)
Field of view (FOV)	25° × 19°
Minimum focus distance	0.25 m (0.82 ft.)
Focal length	25 mm (0.97 in.)
Spatial resolution (IFOV)	0.68 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Continuous, one shot or manual
Digital zoom	1–8× continuous
Digital image enhancement	Adaptive digital noise reduction

## Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 µm
Detector pitch	17 µm

## Image presentation

Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait



**P/N: 55904-6922**

 © 2015, FLIR Systems, Inc.  
 #55904-6922; r. 24597; en-US

Image presentation	
Viewfinder	Built-in 800 × 480 pixels
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.
Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image
Measurement	
Object temperature range	<ul style="list-style-type: none"> <li>• -40°C to +150°C (-40°F to +302°F)</li> <li>• +100°C to +650°C (+212°F to +1202°F)</li> <li>• +300°C to +2000°C (+572°F to +3632°F)</li> </ul>
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.
Measurement analysis	
Spotmeter	10
Area	5 areas (boxes or circles) with max./min./average
Profile	1 line profile with max/min temp
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area and profile
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets	The user can select and combine measurements from any number of spots/boxes/circles/profiles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava
Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible
Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information

**P/N: 55904-6922**

© 2015, FLIR Systems, Inc.  
#55904-6922; r. 24597; en-US

<b>Service functions</b>	
Camera software update	Use PC software FLIR Tools
<b>Storage of images</b>	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none"> <li>• Simultaneous storage of thermal and digital photo in same JPEG file.</li> <li>• Optional to store digital photo as a separate JPEG file.</li> </ul>
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image
<b>Image annotations (in still images)</b>	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> <li>• Instant Report (*.pdf file) in camera</li> <li>• Separate PC software with extensive report generation</li> </ul>
<b>Geographic Information System</b>	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image
<b>Video recording in camera</b>	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card
<b>Video streaming</b>	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none"> <li>• MPEG-4 using Wi-Fi</li> <li>• Uncompressed colorized video using USB</li> </ul>
Visual video streaming	<ul style="list-style-type: none"> <li>• MPEG-4 using Wi-Fi</li> <li>• Uncompressed colorized video using USB</li> </ul>
<b>Digital camera</b>	
Built-in digital camera	5 Mpixels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light
<b>Laser pointer</b>	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

**P/N: 55904-6922**

 © 2015, FLIR Systems, Inc.  
 #55904-6922; r. 24597; en-US

Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards
USB	
USB	<ul style="list-style-type: none"> <li>• USB-A: Connect external USB device</li> <li>• USB Mini-B: Data transfer to and from PC / uncompressed colorized video</li> </ul>
USB, standard	USB 2.0 high speed
Video output	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible
Radio	
Wi-Fi	<ul style="list-style-type: none"> <li>• Standard: 802.11 b/g</li> <li>• Frequency range: 2412–2462 MHz</li> <li>• Max. output power: 15 dBm</li> </ul>
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal
Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none"> <li>• ETSI EN 301 489-1 (radio)</li> <li>• ETSI EN 301 489-17</li> <li>• EN 61000-6-2 (Immunity)</li> <li>• EN 61000-6-3 (Emission)</li> <li>• FCC 47 CFR Part 15 Class B (Emission)</li> <li>• ICES-003</li> </ul>
Radio spectrum	<ul style="list-style-type: none"> <li>• ETSI EN 300 328</li> <li>• FCC Part 15.247</li> <li>• RSS-210</li> </ul>
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1
Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)

**P/N: 55904-6922**

© 2015, FLIR Systems, Inc.  
#55904-6922; r. 24597; en-US

Physical data	
Tripod mounting	UNC ¼"-20
Housing material	Magnesium
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Battery (2 ea.)</li> <li>• Battery charger</li> <li>• Bluetooth headset</li> <li>• Calibration certificate</li> <li>• FLIR Tools download card</li> <li>• User documentation CD-ROM</li> <li>• Printed documentation</li> <li>• HDMI-DVI cable</li> <li>• HDMI-HDMI cable</li> <li>• Hard transport case</li> <li>• Large eyecap</li> <li>• Lens cap</li> <li>• Memory card</li> <li>• Neck strap</li> <li>• Power supply, incl. multi-plugs</li> <li>• Tripod adapter</li> <li>• USB cable, Std A to Mini-B</li> </ul>
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558006993
UPC-12	845188007348
Country of origin	Sweden

#### Supplies & accessories:

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9× (50 µm) with case
- T198060; Close-up IR lens, 5.8× (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5× (25 µm) with case
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T198506; Li-Ion Battery pack 3.7V 29Wh
- T911230ACC; Memory card SDHC 4 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case for T6xx series
- T198495; Pouch for FLIR T6xx and T4xx series
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198586; FLIR Reporter Professional (license only)



---

**P/N: 55904-6922**

© 2015, FLIR Systems, Inc.  
#55904-6922; r. 24597; en-US

- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade

**P/N: 55904-7022**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 55904-7022  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR T640 is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 640 × 480 pixel infrared resolution. The FLIR T640 is flexible and can meet your every need, and has extensive communication options.

### Benefits:

- Highest performance with the latest technology: The FLIR T640 is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. Continuous auto-focus makes the FLIR T640 the first fully automatic infrared camera on the market.
- Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T640 allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image.
- Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools.

## Imaging and optical data

IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<30 mK @ +30°C (+86°F)
Field of view (FOV)	45° × 34°
Minimum focus distance	0.15 m (0.49 ft.)
Focal length	13 mm (0.52 in.)
Spatial resolution (IFOV)	1.30 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Continuous, one shot or manual
Digital zoom	1–8× continuous
Digital image enhancement	Adaptive digital noise reduction

## Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 µm
Detector pitch	17 µm

## Image presentation

Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait

**P/N: 55904-7022**

 © 2015, FLIR Systems, Inc.  
 #55904-7022; r. 24597; en-US

Image presentation	
Viewfinder	Built-in 800 × 480 pixels
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.
Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image
Measurement	
Object temperature range	<ul style="list-style-type: none"> <li>• -40°C to +150°C (-40°F to +302°F)</li> <li>• +100°C to +650°C (+212°F to +1202°F)</li> <li>• +300°C to +2000°C (+572°F to +3632°F)</li> </ul>
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.
Measurement analysis	
Spotmeter	10
Area	5 areas (boxes or circles) with max./min./average
Profile	1 line profile with max/min temp
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area and profile
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets	The user can select and combine measurements from any number of spots/boxes/circles/profiles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava
Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible
Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information

**P/N: 55904-7022**

 © 2015, FLIR Systems, Inc.  
 #55904-7022; r. 24597; en-US

Service functions	
Camera software update	Use PC software FLIR Tools
Storage of images	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none"> <li>Simultaneous storage of thermal and digital photo in same JPEG file.</li> <li>Optional to store digital photo as a separate JPEG file.</li> </ul>
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image
Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> <li>Instant Report (*.pdf file) in camera</li> <li>Separate PC software with extensive report generation</li> </ul>
Geographic Information System	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image
Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card
Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>
Visual video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>
Digital camera	
Built-in digital camera	5 Mpixels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light
Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)



**P/N: 55904-7022**

© 2015, FLIR Systems, Inc.  
#55904-7022; r. 24597; en-US

<b>Data communication interfaces</b>	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards
<b>USB</b>	
USB	<ul style="list-style-type: none"> <li>• USB-A: Connect external USB device</li> <li>• USB Mini-B: Data transfer to and from PC / uncompressed colorized video</li> </ul>
USB, standard	USB 2.0 high speed
<b>Video output</b>	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible
<b>Radio</b>	
Wi-Fi	<ul style="list-style-type: none"> <li>• Standard: 802.11 b/g</li> <li>• Frequency range: 2412–2462 MHz</li> <li>• Max. output power: 15 dBm</li> </ul>
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal
<b>Power system</b>	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
<b>Environmental data</b>	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none"> <li>• ETSI EN 301 489-1 (radio)</li> <li>• ETSI EN 301 489-17</li> <li>• EN 61000-6-2 (Immunity)</li> <li>• EN 61000-6-3 (Emission)</li> <li>• FCC 47 CFR Part 15 Class B (Emission)</li> <li>• ICES-003</li> </ul>
Radio spectrum	<ul style="list-style-type: none"> <li>• ETSI EN 300 328</li> <li>• FCC Part 15.247</li> <li>• RSS-210</li> </ul>
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1
<b>Physical data</b>	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)

**P/N: 55904-7022**

 © 2015, FLIR Systems, Inc.  
 #55904-7022; r. 24597; en-US

Physical data	
Tripod mounting	UNC ¼"-20
Housing material	Magnesium
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Battery (2 ea.)</li> <li>• Battery charger</li> <li>• Bluetooth headset</li> <li>• Calibration certificate</li> <li>• FLIR Tools download card</li> <li>• User documentation CD-ROM</li> <li>• Printed documentation</li> <li>• HDMI-DVI cable</li> <li>• HDMI-HDMI cable</li> <li>• Hard transport case</li> <li>• Large eyecap</li> <li>• Lens cap</li> <li>• Memory card</li> <li>• Neck strap</li> <li>• Power supply, incl. multi-plugs</li> <li>• Tripod adapter</li> <li>• USB cable, Std A to Mini-B</li> </ul>
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558007006
UPC-12	845188007355
Country of origin	Sweden

**Supplies & accessories:**

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9× (50 µm) with case
- T198060; Close-up IR lens, 5.8× (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5× (25 µm) with case
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T198506; Li-Ion Battery pack 3.7V 29Wh
- T911230ACC; Memory card SDHC 4 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case for T6xx series
- T198495; Pouch for FLIR T6xx and T4xx series
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198586; FLIR Reporter Professional (license only)



---

**P/N: 55904-7022**

© 2015, FLIR Systems, Inc.  
#55904-7022; r. 24597; en-US

- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade

**P/N: 55904-7422**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 55904-7422  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR T640bx is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 640 × 480 pixel infrared resolution. The FLIR T640bx is flexible and can meet your every need, and has extensive communication options.

### Benefits:

- Highest performance with the latest technology: The FLIR T640bx is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. Continuous auto-focus makes the FLIR T640bx the first fully automatic infrared camera on the market.
- Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T640bx allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image.
- Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools.

## Imaging and optical data

IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<30 mK @ +30°C (+86°F)
Field of view (FOV)	15° × 11°
Minimum focus distance	0.5 m (1.64 ft.)
Focal length	41 mm (1.63 in.)
Spatial resolution (IFOV)	0.41 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Continuous, one shot or manual
Digital zoom	1–8× continuous
Digital image enhancement	Adaptive digital noise reduction

## Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 µm
Detector pitch	17 µm

## Image presentation

Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait

**P/N: 55904-7422**

 © 2015, FLIR Systems, Inc.  
 #55904-7422; r. 24597; en-US

Image presentation	
Viewfinder	Built-in 800 × 480 pixels
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.
Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image
Measurement	
Object temperature range	<ul style="list-style-type: none"> <li>• -40°C to +150°C (-40°F to +302°F)</li> <li>• +100°C to +650°C (+212°F to +1202°F)</li> </ul>
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.
Measurement analysis	
Spotmeter	10
Area	5 areas (boxes or circles) with max./min./average
Profile	1 line profile with max/min temp
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area and profile
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets	The user can select and combine measurements from any number of spots/boxes/circles/profiles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava
Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible
Humidity alarm	1 humidity alarm, including dew point alarm
Insulation alarm	1 insulation alarm

**P/N: 55904-7422**

 © 2015, FLIR Systems, Inc.  
 #55904-7422; r. 24597; en-US

<b>Set-up</b>	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information
<b>Service functions</b>	
Camera software update	Use PC software FLIR Tools
<b>Storage of images</b>	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none"> <li>Simultaneous storage of thermal and digital photo in same JPEG file.</li> <li>Optional to store digital photo as a separate JPEG file.</li> </ul>
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image
<b>Image annotations (in still images)</b>	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> <li>Instant Report (*.pdf file) in camera</li> <li>Separate PC software with extensive report generation</li> </ul>
<b>Geographic Information System</b>	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image
<b>Video recording in camera</b>	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card
<b>Video streaming</b>	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>
Visual video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>
<b>Digital camera</b>	
Built-in digital camera	5 Mpixels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light

**P/N: 55904-7422**

 © 2015, FLIR Systems, Inc.  
 #55904-7422; r. 24597; en-US

<b>Laser pointer</b>	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)
<b>Data communication interfaces</b>	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards
<b>USB</b>	
USB	<ul style="list-style-type: none"> <li>USB-A: Connect external USB device</li> <li>USB Mini-B: Data transfer to and from PC / uncompressed colorized video</li> </ul>
USB, standard	USB 2.0 high speed
<b>Video output</b>	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible
<b>Radio</b>	
Wi-Fi	<ul style="list-style-type: none"> <li>Standard: 802.11 b/g</li> <li>Frequency range: 2412–2462 MHz</li> <li>Max. output power: 15 dBm</li> </ul>
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal
<b>Power system</b>	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
<b>Environmental data</b>	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none"> <li>ETSI EN 301 489-1 (radio)</li> <li>ETSI EN 301 489-17</li> <li>EN 61000-6-2 (Immunity)</li> <li>EN 61000-6-3 (Emission)</li> <li>FCC 47 CFR Part 15 Class B (Emission)</li> <li>ICES-003</li> </ul>
Radio spectrum	<ul style="list-style-type: none"> <li>ETSI EN 300 328</li> <li>FCC Part 15.247</li> <li>RSS-210</li> </ul>
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)

**P/N: 55904-7422**

© 2015, FLIR Systems, Inc.  
#55904-7422; r. 24597; en-US

Environmental data	
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1
Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Battery (2 ea.)</li> <li>• Battery charger</li> <li>• Bluetooth headset</li> <li>• Calibration certificate</li> <li>• FLIR Tools download card</li> <li>• User documentation CD-ROM</li> <li>• Printed documentation</li> <li>• HDMI-DVI cable</li> <li>• HDMI-HDMI cable</li> <li>• Hard transport case</li> <li>• Large eyecap</li> <li>• Lens cap</li> <li>• Memory card</li> <li>• Neck strap</li> <li>• Power supply, incl. multi-plugs</li> <li>• Tripod adapter</li> <li>• USB cable, Std A to Mini-B</li> </ul>
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558007051
UPC-12	845188007393
Country of origin	Sweden

#### Supplies & accessories:

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9× (50 µm) with case
- T198060; Close-up IR lens, 5.8× (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5× (25 µm) with case
- T197896; High temp option +300°C to 2000°C (+572°F to 3632°F) for FLIR A6xxsc and T6xx
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T198506; Li-Ion Battery pack 3.7V 29Wh
- T911230ACC; Memory card SDHC 4 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case for T6xx series
- T198495; Pouch for FLIR T6xx and T4xx series
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap



---

**P/N: 55904-7422**

© 2015, FLIR Systems, Inc.  
#55904-7422; r. 24597; en-US

- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in.
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade

**P/N: 55904-7522**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 55904-7522  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR T640bx is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 640 × 480 pixel infrared resolution. The FLIR T640bx is flexible and can meet your every need, and has extensive communication options.

### Benefits:

- Highest performance with the latest technology: The FLIR T640bx is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. Continuous auto-focus makes the FLIR T640bx the first fully automatic infrared camera on the market.
- Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T640bx allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image.
- Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools.

## Imaging and optical data

IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<30 mK @ +30°C (+86°F)
Field of view (FOV)	25° × 19°
Minimum focus distance	0.25 m (0.82 ft.)
Focal length	25 mm (0.97 in.)
Spatial resolution (IFOV)	0.68 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Continuous, one shot or manual
Digital zoom	1–8× continuous
Digital image enhancement	Adaptive digital noise reduction

## Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 µm
Detector pitch	17 µm

## Image presentation

Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait

**P/N: 55904-7522**

 © 2015, FLIR Systems, Inc.  
 #55904-7522; r. 24597; en-US

<b>Image presentation</b>	
Viewfinder	Built-in 800 × 480 pixels
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.

<b>Image presentation modes</b>	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image

<b>Measurement</b>	
Object temperature range	<ul style="list-style-type: none"> <li>• -40°C to +150°C (-40°F to +302°F)</li> <li>• +100°C to +650°C (+212°F to +1202°F)</li> </ul>
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.

<b>Measurement analysis</b>	
Spotmeter	10
Area	5 areas (boxes or circles) with max./min./average
Profile	1 line profile with max/min temp
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area and profile
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets	The user can select and combine measurements from any number of spots/boxes/circles/profiles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava

<b>Alarm</b>	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible
Humidity alarm	1 humidity alarm, including dew point alarm
Insulation alarm	1 insulation alarm

**P/N: 55904-7522**

© 2015, FLIR Systems, Inc.  
#55904-7522; r. 24597; en-US

<b>Set-up</b>	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information
<b>Service functions</b>	
Camera software update	Use PC software FLIR Tools
<b>Storage of images</b>	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none"> <li>Simultaneous storage of thermal and digital photo in same JPEG file.</li> <li>Optional to store digital photo as a separate JPEG file.</li> </ul>
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image
<b>Image annotations (in still images)</b>	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> <li>Instant Report (*.pdf file) in camera</li> <li>Separate PC software with extensive report generation</li> </ul>
<b>Geographic Information System</b>	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image
<b>Video recording in camera</b>	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card
<b>Video streaming</b>	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>
Visual video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>
<b>Digital camera</b>	
Built-in digital camera	5 Mpixels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light

**P/N: 55904-7522**

© 2015, FLIR Systems, Inc.  
#55904-7522; r. 24597; en-US

<b>Laser pointer</b>	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)
<b>Data communication interfaces</b>	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards
<b>USB</b>	
USB	<ul style="list-style-type: none"> <li>USB-A: Connect external USB device</li> <li>USB Mini-B: Data transfer to and from PC / uncompressed colorized video</li> </ul>
USB, standard	USB 2.0 high speed
<b>Video output</b>	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible
<b>Radio</b>	
Wi-Fi	<ul style="list-style-type: none"> <li>Standard: 802.11 b/g</li> <li>Frequency range: 2412–2462 MHz</li> <li>Max. output power: 15 dBm</li> </ul>
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal
<b>Power system</b>	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
<b>Environmental data</b>	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none"> <li>ETSI EN 301 489-1 (radio)</li> <li>ETSI EN 301 489-17</li> <li>EN 61000-6-2 (Immunity)</li> <li>EN 61000-6-3 (Emission)</li> <li>FCC 47 CFR Part 15 Class B (Emission)</li> <li>ICES-003</li> </ul>
Radio spectrum	<ul style="list-style-type: none"> <li>ETSI EN 300 328</li> <li>FCC Part 15.247</li> <li>RSS-210</li> </ul>
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)

**P/N: 55904-7522**

 © 2015, FLIR Systems, Inc.  
 #55904-7522; r. 24597; en-US

Environmental data	
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1
Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Battery (2 ea.)</li> <li>• Battery charger</li> <li>• Bluetooth headset</li> <li>• Calibration certificate</li> <li>• FLIR Tools download card</li> <li>• User documentation CD-ROM</li> <li>• Printed documentation</li> <li>• HDMI-DVI cable</li> <li>• HDMI-HDMI cable</li> <li>• Hard transport case</li> <li>• Large eyecap</li> <li>• Lens cap</li> <li>• Memory card</li> <li>• Neck strap</li> <li>• Power supply, incl. multi-plugs</li> <li>• Tripod adapter</li> <li>• USB cable, Std A to Mini-B</li> </ul>
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558007068
UPC-12	845188007409

**Supplies & accessories:**

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9× (50 µm) with case
- T198060; Close-up IR lens, 5.8× (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5× (25 µm) with case
- T197896; High temp option +300°C to 2000°C (+572°F to 3632°F) for FLIR A6xxsc and T6xx
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T198506; Li-Ion Battery pack 3.7V 29Wh
- T911230ACC; Memory card SDHC 4 GB
- T910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case for T6xx series
- T198495; Pouch for FLIR T6xx and T4xx series
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt

---

**P/N: 55904-7522**

© 2015, FLIR Systems, Inc.  
#55904-7522; r. 24597; en-US

- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade

**P/N: 55904-7622**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 55904-7622  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR T640bx is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 640 × 480 pixel infrared resolution. The FLIR T640bx is flexible and can meet your every need, and has extensive communication options.

### Benefits:

- Highest performance with the latest technology: The FLIR T640bx is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. Continuous auto-focus makes the FLIR T640bx the first fully automatic infrared camera on the market.
- Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T640bx allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image.
- Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools.

## Imaging and optical data

IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<30 mK @ +30°C (+86°F)
Field of view (FOV)	45° × 34°
Minimum focus distance	0.15 m (0.49 ft.)
Focal length	13 mm (0.52 in.)
Spatial resolution (IFOV)	1.30 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Continuous, one shot or manual
Digital zoom	1–8× continuous
Digital image enhancement	Adaptive digital noise reduction

## Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 µm
Detector pitch	17 µm

## Image presentation

Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait



**P/N: 55904-7622**

 © 2015, FLIR Systems, Inc.  
 #55904-7622; r. 24597; en-US

<b>Image presentation</b>	
Viewfinder	Built-in 800 × 480 pixels
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.

<b>Image presentation modes</b>	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image

<b>Measurement</b>	
Object temperature range	<ul style="list-style-type: none"> <li>• -40°C to +150°C (-40°F to +302°F)</li> <li>• +100°C to +650°C (+212°F to +1202°F)</li> </ul>
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.

<b>Measurement analysis</b>	
Spotmeter	10
Area	5 areas (boxes or circles) with max./min./average
Profile	1 line profile with max/min temp
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area and profile
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets	The user can select and combine measurements from any number of spots/boxes/circles/profiles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava

<b>Alarm</b>	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible
Humidity alarm	1 humidity alarm, including dew point alarm
Insulation alarm	1 insulation alarm

**P/N: 55904-7622**

© 2015, FLIR Systems, Inc.  
#55904-7622; r. 24597; en-US

<b>Set-up</b>	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information
<b>Service functions</b>	
Camera software update	Use PC software FLIR Tools
<b>Storage of images</b>	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none"> <li>Simultaneous storage of thermal and digital photo in same JPEG file.</li> <li>Optional to store digital photo as a separate JPEG file.</li> </ul>
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image
<b>Image annotations (in still images)</b>	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> <li>Instant Report (*.pdf file) in camera</li> <li>Separate PC software with extensive report generation</li> </ul>
<b>Geographic Information System</b>	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image
<b>Video recording in camera</b>	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card
<b>Video streaming</b>	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>
Visual video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>
<b>Digital camera</b>	
Built-in digital camera	5 Mpixels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light

**P/N: 55904-7622**

 © 2015, FLIR Systems, Inc.  
 #55904-7622; r. 24597; en-US

<b>Laser pointer</b>	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)
<b>Data communication interfaces</b>	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards
<b>USB</b>	
USB	<ul style="list-style-type: none"> <li>USB-A: Connect external USB device</li> <li>USB Mini-B: Data transfer to and from PC / uncompressed colorized video</li> </ul>
USB, standard	USB 2.0 high speed
<b>Video output</b>	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible
<b>Radio</b>	
Wi-Fi	<ul style="list-style-type: none"> <li>Standard: 802.11 b/g</li> <li>Frequency range: 2412–2462 MHz</li> <li>Max. output power: 15 dBm</li> </ul>
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal
<b>Power system</b>	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
<b>Environmental data</b>	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none"> <li>ETSI EN 301 489-1 (radio)</li> <li>ETSI EN 301 489-17</li> <li>EN 61000-6-2 (Immunity)</li> <li>EN 61000-6-3 (Emission)</li> <li>FCC 47 CFR Part 15 Class B (Emission)</li> <li>ICES-003</li> </ul>
Radio spectrum	<ul style="list-style-type: none"> <li>ETSI EN 300 328</li> <li>FCC Part 15.247</li> <li>RSS-210</li> </ul>
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)

**P/N: 55904-7622**

 © 2015, FLIR Systems, Inc.  
 #55904-7622; r. 24597; en-US

Environmental data	
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1
Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Battery (2 ea.)</li> <li>• Battery charger</li> <li>• Bluetooth headset</li> <li>• Calibration certificate</li> <li>• FLIR Tools download card</li> <li>• User documentation CD-ROM</li> <li>• Printed documentation</li> <li>• HDMI-DVI cable</li> <li>• HDMI-HDMI cable</li> <li>• Hard transport case</li> <li>• Large eyecap</li> <li>• Lens cap</li> <li>• Memory card</li> <li>• Neck strap</li> <li>• Power supply, incl. multi-plugs</li> <li>• Tripod adapter</li> <li>• USB cable, Std A to Mini-B</li> </ul>
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558007075
UPC-12	845188007416
Country of origin	Sweden

**Supplies & accessories:**

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9× (50 µm) with case
- T198060; Close-up IR lens, 5.8× (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5× (25 µm) with case
- T197896; High temp option +300°C to 2000°C (+572°F to 3632°F) for FLIR A6xxsc and T6xx
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T198506; Li-Ion Battery pack 3.7V 29Wh
- T911230ACC; Memory card SDHC 4 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case for T6xx series
- T198495; Pouch for FLIR T6xx and T4xx series
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap

---

**P/N: 55904-7622**

© 2015, FLIR Systems, Inc.  
#55904-7622; r. 24597; en-US

- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in.
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade

**P/N: 55904-7723**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 55904-7723  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR T650sc is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and feature-rich flexibility with superior image quality of 640 × 480 pixel infrared resolution. High accuracy and sensitivity together with radiometric recording and streaming options make the FLIR T650sc well suited for advanced research and development.

## Benefits:

- Tailor made for research and development: The FLIR T650sc has high accuracy and high sensitivity to accurately measure the smallest temperature differences. With real-time radiometric recording by the camera, it is possible to capture fast events on an SD card for further analysis by the supplied analysis software.
- Flexible and feature rich: A wide variety of measuring and analysis functions makes the camera flexible and able to meet your every need. A programmable button provides easy access to favorite functions.
- Highest performance with the latest technology: The FLIR T650sc is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. Continuous auto-focus makes the FLIR T650sc the first fully automatic infrared camera on the market.
- Extensive communication options: The Wi-Fi connectivity of the T650sc allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image.
- Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools.

## Imaging and optical data

IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<20 mK @ +30°C (+86°F)
Field of view (FOV)	15° × 11°
Minimum focus distance	0.5 m (1.64 ft.)
Focal length	41 mm (1.63 in.)
Spatial resolution (IFOV)	0.41 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Continuous, one shot or manual
Digital zoom	1–8× continuous
Digital image enhancement	Adaptive digital noise reduction

## Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 µm
Detector pitch	17 µm

**P/N: 55904-7723**

 © 2015, FLIR Systems, Inc.  
 #55904-7723; r. 24597; en-US

<b>Image presentation</b>	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Viewfinder	Built-in 800 × 480 pixels
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.

<b>Image presentation modes</b>	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image

<b>Measurement</b>	
Object temperature range	<ul style="list-style-type: none"> <li>• -40°C to +150°C (-40°F to +302°F)</li> <li>• +100°C to +650°C (+212°F to +1202°F)</li> </ul>
Accuracy	<ul style="list-style-type: none"> <li>• ±1°C (±1.8°F) or ±1% of reading for limited temperature range.</li> <li>• ±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.</li> </ul>

<b>Measurement analysis</b>	
Spotmeter	10
Area	5 areas (boxes or circles) with max./min./average
Profile	1 line profile with max/min temp
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area and profile
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets	The user can select and combine measurements from any number of spots/boxes/circles/profiles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava

<b>Alarm</b>	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible

**P/N: 55904-7723**

 © 2015, FLIR Systems, Inc.  
 #55904-7723; r. 24597; en-US

<b>Set-up</b>	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information
<b>Service functions</b>	
Camera software update	Use PC software FLIR Tools
<b>Storage of images</b>	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none"> <li>Simultaneous storage of thermal and digital photo in same JPEG file.</li> <li>Optional to store digital photo as a separate JPEG file.</li> </ul>
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image
<b>Image annotations (in still images)</b>	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> <li>Instant Report (*.pdf file) in camera</li> <li>Separate PC software with extensive report generation</li> </ul>
<b>Geographic Information System</b>	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image
<b>Video recording in camera</b>	
Radiometric IR video recording	CSQ to memory card
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card
<b>Video streaming</b>	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>
Visual video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>
<b>Digital camera</b>	
Built-in digital camera	5 Mpixels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light



**P/N: 55904-7723**

 © 2015, FLIR Systems, Inc.  
 #55904-7723; r. 24597; en-US

<b>Laser pointer</b>	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)
<b>Data communication interfaces</b>	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards
<b>USB</b>	
USB	<ul style="list-style-type: none"> <li>USB-A: Connect external USB device</li> <li>USB Mini-B: Data transfer to and from PC / uncompressed colorized video</li> </ul>
USB, standard	USB 2.0 high speed
<b>Video output</b>	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible
<b>Radio</b>	
Wi-Fi	<ul style="list-style-type: none"> <li>Standard: 802.11 b/g</li> <li>Frequency range: 2412–2462 MHz</li> <li>Max. output power: 15 dBm</li> </ul>
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal
<b>Power system</b>	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
<b>Environmental data</b>	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none"> <li>ETSI EN 301 489-1 (radio)</li> <li>ETSI EN 301 489-17</li> <li>EN 61000-6-2 (Immunity)</li> <li>EN 61000-6-3 (Emission)</li> <li>FCC 47 CFR Part 15 Class B (Emission)</li> <li>ICES-003</li> </ul>
Radio spectrum	<ul style="list-style-type: none"> <li>ETSI EN 300 328</li> <li>FCC Part 15.247</li> <li>RSS-210</li> </ul>
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)

**P/N: 55904-7723**

© 2015, FLIR Systems, Inc.  
#55904-7723; r. 24597; en-US

Environmental data	
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1
Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Battery (2 ea.)</li> <li>• Battery charger</li> <li>• Bluetooth headset</li> <li>• Calibration certificate</li> <li>• FLIR ResearchIR Max 4</li> <li>• FLIR Tools download card</li> <li>• User documentation CD-ROM</li> <li>• Printed documentation</li> <li>• HDMI-DVI cable</li> <li>• HDMI-HDMI cable</li> <li>• Hard transport case</li> <li>• Large eyecap</li> <li>• Lens cap</li> <li>• Memory card</li> <li>• Neck strap</li> <li>• Power supply, incl. multi-plugs</li> <li>• Tripod adapter</li> <li>• USB cable, Std A to Mini-B</li> </ul>
Packaging, weight	6.95 kg (15.3 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558007082
UPC-12	845188007423
Country of origin	Sweden

**Supplies & accessories:**

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9× (50 µm) with case
- T198060; Close-up IR lens, 5.8× (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5× (25 µm) with case
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T198506; Li-Ion Battery pack 3.7V 29Wh
- T911230ACC; Memory card SDHC 4 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case for T6xx series
- T198495; Pouch for FLIR T6xx and T4xx series
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt

---

**P/N: 55904-7723**

© 2015, FLIR Systems, Inc.  
#55904-7723; r. 24597; en-US

- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade

**P/N: 55904-7823**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 55904-7823  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR T650sc is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and feature-rich flexibility with superior image quality of 640 × 480 pixel infrared resolution. High accuracy and sensitivity together with radiometric recording and streaming options make the FLIR T650sc well suited for advanced research and development.

### Benefits:

- Tailor made for research and development: The FLIR T650sc has high accuracy and high sensitivity to accurately measure the smallest temperature differences. With real-time radiometric recording by the camera, it is possible to capture fast events on an SD card for further analysis by the supplied analysis software.
- Flexible and feature rich: A wide variety of measuring and analysis functions makes the camera flexible and able to meet your every need. A programmable button provides easy access to favorite functions.
- Highest performance with the latest technology: The FLIR T650sc is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. Continuous auto-focus makes the FLIR T650sc the first fully automatic infrared camera on the market.
- Extensive communication options: The Wi-Fi connectivity of the T650sc allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image.
- Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools.

## Imaging and optical data

IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<20 mK @ +30°C (+86°F)
Field of view (FOV)	25° × 19°
Minimum focus distance	0.25 m (0.82 ft.)
Focal length	25 mm (0.97 in.)
Spatial resolution (IFOV)	0.68 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Continuous, one shot or manual
Digital zoom	1–8× continuous
Digital image enhancement	Adaptive digital noise reduction

## Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 µm
Detector pitch	17 µm

P/N: 55904-7823

© 2015, FLIR Systems, Inc.  
#55904-7823; r. 24597; en-US

Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Viewfinder	Built-in 800 × 480 pixels
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.

Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none"> <li>–40°C to +150°C (–40°F to +302°F)</li> <li>+100°C to +650°C (+212°F to +1202°F)</li> </ul>
Accuracy	<ul style="list-style-type: none"> <li>±1°C (±1.8°F) or ±1% of reading for limited temperature range.</li> <li>±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.</li> </ul>

Measurement analysis	
Spotmeter	10
Area	5 areas (boxes or circles) with max./min./average
Profile	1 line profile with max/min temp
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area and profile
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets	The user can select and combine measurements from any number of spots/boxes/circles/profiles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava

Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible

**P/N: 55904-7823**

 © 2015, FLIR Systems, Inc.  
 #55904-7823; r. 24597; en-US

<b>Set-up</b>	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information
<b>Service functions</b>	
Camera software update	Use PC software FLIR Tools
<b>Storage of images</b>	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none"> <li>Simultaneous storage of thermal and digital photo in same JPEG file.</li> <li>Optional to store digital photo as a separate JPEG file.</li> </ul>
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image
<b>Image annotations (in still images)</b>	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> <li>Instant Report (*.pdf file) in camera</li> <li>Separate PC software with extensive report generation</li> </ul>
<b>Geographic Information System</b>	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image
<b>Video recording in camera</b>	
Radiometric IR video recording	CSQ to memory card
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card
<b>Video streaming</b>	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>
Visual video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>
<b>Digital camera</b>	
Built-in digital camera	5 Mpixels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light

**P/N: 55904-7823**

 © 2015, FLIR Systems, Inc.  
 #55904-7823; r. 24597; en-US

<b>Laser pointer</b>	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)
<b>Data communication interfaces</b>	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards
<b>USB</b>	
USB	<ul style="list-style-type: none"> <li>USB-A: Connect external USB device</li> <li>USB Mini-B: Data transfer to and from PC / uncompressed colorized video</li> </ul>
USB, standard	USB 2.0 high speed
<b>Video output</b>	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible
<b>Radio</b>	
Wi-Fi	<ul style="list-style-type: none"> <li>Standard: 802.11 b/g</li> <li>Frequency range: 2412–2462 MHz</li> <li>Max. output power: 15 dBm</li> </ul>
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal
<b>Power system</b>	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
<b>Environmental data</b>	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none"> <li>ETSI EN 301 489-1 (radio)</li> <li>ETSI EN 301 489-17</li> <li>EN 61000-6-2 (Immunity)</li> <li>EN 61000-6-3 (Emission)</li> <li>FCC 47 CFR Part 15 Class B (Emission)</li> <li>ICES-003</li> </ul>
Radio spectrum	<ul style="list-style-type: none"> <li>ETSI EN 300 328</li> <li>FCC Part 15.247</li> <li>RSS-210</li> </ul>
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)

**P/N: 55904-7823**

 © 2015, FLIR Systems, Inc.  
 #55904-7823; r. 24597; en-US

Environmental data	
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1
Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Battery (2 ea.)</li> <li>• Battery charger</li> <li>• Bluetooth headset</li> <li>• Calibration certificate</li> <li>• FLIR ResearchIR Max 4</li> <li>• FLIR Tools download card</li> <li>• User documentation CD-ROM</li> <li>• Printed documentation</li> <li>• HDMI-DVI cable</li> <li>• HDMI-HDMI cable</li> <li>• Hard transport case</li> <li>• Large eyecap</li> <li>• Lens cap</li> <li>• Memory card</li> <li>• Neck strap</li> <li>• Power supply, incl. multi-plugs</li> <li>• Tripod adapter</li> <li>• USB cable, Std A to Mini-B</li> </ul>
Packaging, weight	6.95 kg (15.3 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558007099
UPC-12	845188007430
Country of origin	Sweden

**Supplies & accessories:**

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9× (50 µm) with case
- T198060; Close-up IR lens, 5.8× (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5× (25 µm) with case
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T198506; Li-Ion Battery pack 3.7V 29Wh
- T911230ACC; Memory card SDHC 4 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case for T6xx series
- T198495; Pouch for FLIR T6xx and T4xx series
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt



---

**P/N: 55904-7823**

© 2015, FLIR Systems, Inc.  
#55904-7823; r. 24597; en-US

- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade

**P/N: 55904-7923**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 55904-7923  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR T650sc is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and feature-rich flexibility with superior image quality of 640 × 480 pixel infrared resolution. High accuracy and sensitivity together with radiometric recording and streaming options make the FLIR T650sc well suited for advanced research and development.

## Benefits:

- Tailor made for research and development: The FLIR T650sc has high accuracy and high sensitivity to accurately measure the smallest temperature differences. With real-time radiometric recording by the camera, it is possible to capture fast events on an SD card for further analysis by the supplied analysis software.
- Flexible and feature rich: A wide variety of measuring and analysis functions makes the camera flexible and able to meet your every need. A programmable button provides easy access to favorite functions.
- Highest performance with the latest technology: The FLIR T650sc is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. Continuous auto-focus makes the FLIR T650sc the first fully automatic infrared camera on the market.
- Extensive communication options: The Wi-Fi connectivity of the T650sc allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image.
- Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools.

## Imaging and optical data

IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<20 mK @ +30°C (+86°F)
Field of view (FOV)	45° × 34°
Minimum focus distance	0.15 m (0.49 ft.)
Focal length	13 mm (0.52 in.)
Spatial resolution (IFOV)	1.30 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Continuous, one shot or manual
Digital zoom	1–8× continuous
Digital image enhancement	Adaptive digital noise reduction

## Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 µm
Detector pitch	17 µm

**P/N: 55904-7923**

 © 2015, FLIR Systems, Inc.  
 #55904-7923; r. 24597; en-US

<b>Image presentation</b>	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Viewfinder	Built-in 800 × 480 pixels
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.

<b>Image presentation modes</b>	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image

<b>Measurement</b>	
Object temperature range	<ul style="list-style-type: none"> <li>• -40°C to +150°C (-40°F to +302°F)</li> <li>• +100°C to +650°C (+212°F to +1202°F)</li> </ul>
Accuracy	<ul style="list-style-type: none"> <li>• ±1°C (±1.8°F) or ±1% of reading for limited temperature range.</li> <li>• ±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.</li> </ul>

<b>Measurement analysis</b>	
Spotmeter	10
Area	5 areas (boxes or circles) with max./min./average
Profile	1 line profile with max/min temp
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area and profile
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets	The user can select and combine measurements from any number of spots/boxes/circles/profiles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava

<b>Alarm</b>	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible

**P/N: 55904-7923**

 © 2015, FLIR Systems, Inc.  
 #55904-7923; r. 24597; en-US

<b>Set-up</b>	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information
<b>Service functions</b>	
Camera software update	Use PC software FLIR Tools
<b>Storage of images</b>	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none"> <li>Simultaneous storage of thermal and digital photo in same JPEG file.</li> <li>Optional to store digital photo as a separate JPEG file.</li> </ul>
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image
<b>Image annotations (in still images)</b>	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> <li>Instant Report (*.pdf file) in camera</li> <li>Separate PC software with extensive report generation</li> </ul>
<b>Geographic Information System</b>	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image
<b>Video recording in camera</b>	
Radiometric IR video recording	CSQ to memory card
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card
<b>Video streaming</b>	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>
Visual video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>
<b>Digital camera</b>	
Built-in digital camera	5 Mpixels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light

**P/N: 55904-7923**

© 2015, FLIR Systems, Inc.  
#55904-7923; r. 24597; en-US

<b>Laser pointer</b>	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)
<b>Data communication interfaces</b>	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards
<b>USB</b>	
USB	<ul style="list-style-type: none"> <li>USB-A: Connect external USB device</li> <li>USB Mini-B: Data transfer to and from PC / uncompressed colorized video</li> </ul>
USB, standard	USB 2.0 high speed
<b>Video output</b>	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible
<b>Radio</b>	
Wi-Fi	<ul style="list-style-type: none"> <li>Standard: 802.11 b/g</li> <li>Frequency range: 2412–2462 MHz</li> <li>Max. output power: 15 dBm</li> </ul>
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal
<b>Power system</b>	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
<b>Environmental data</b>	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none"> <li>ETSI EN 301 489-1 (radio)</li> <li>ETSI EN 301 489-17</li> <li>EN 61000-6-2 (Immunity)</li> <li>EN 61000-6-3 (Emission)</li> <li>FCC 47 CFR Part 15 Class B (Emission)</li> <li>ICES-003</li> </ul>
Radio spectrum	<ul style="list-style-type: none"> <li>ETSI EN 300 328</li> <li>FCC Part 15.247</li> <li>RSS-210</li> </ul>
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)

**P/N: 55904-7923**

© 2015, FLIR Systems, Inc.  
#55904-7923; r. 24597; en-US

Environmental data	
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1
Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Battery (2 ea.)</li> <li>• Battery charger</li> <li>• Bluetooth headset</li> <li>• Calibration certificate</li> <li>• FLIR ResearchIR Max 4</li> <li>• FLIR Tools download card</li> <li>• User documentation CD-ROM</li> <li>• Printed documentation</li> <li>• HDMI-DVI cable</li> <li>• HDMI-HDMI cable</li> <li>• Hard transport case</li> <li>• Large eyecap</li> <li>• Lens cap</li> <li>• Memory card</li> <li>• Neck strap</li> <li>• Power supply, incl. multi-plugs</li> <li>• Tripod adapter</li> <li>• USB cable, Std A to Mini-B</li> </ul>
Packaging, weight	6.95 kg (15.3 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558007105
UPC-12	845188007447
Country of origin	Sweden

**Supplies & accessories:**

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9× (50 µm) with case
- T198060; Close-up IR lens, 5.8× (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5× (25 µm) with case
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T198506; Li-Ion Battery pack 3.7V 29Wh
- T911230ACC; Memory card SDHC 4 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case for T6xx series
- T198495; Pouch for FLIR T6xx and T4xx series
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt

---

**P/N: 55904-7923**

© 2015, FLIR Systems, Inc.  
#55904-7923; r. 24597; en-US

- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade

**P/N: 55904-8422**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 55904-8422  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR T660 is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 640 × 480 pixel infrared resolution. The FLIR T660 is flexible and can meet your every need.

### Benefits:

- Highest performance with the latest technology: The FLIR T660 is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. Continuous auto-focus makes the FLIR T660 the first fully automatic infrared camera on the market.
- Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T660 allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image.
- Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools.

## Imaging and optical data

IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<20 mK @ +30°C (+86°F)
Field of view (FOV)	15° × 11°
Minimum focus distance	0.5 m (1.64 ft.)
Focal length	41 mm (1.63 in.)
Spatial resolution (IFOV)	0.41 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Continuous, one shot or manual
Digital zoom	1–8× continuous
Digital image enhancement	Adaptive digital noise reduction

## Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 µm
Detector pitch	17 µm

## Image presentation

Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait



**P/N: 55904-8422**

 © 2015, FLIR Systems, Inc.  
 #55904-8422; r. 24597; en-US

Image presentation	
Viewfinder	Built-in 800 × 480 pixels
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.
Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image
Measurement	
Object temperature range	<ul style="list-style-type: none"> <li>• -40°C to +150°C (-40°F to +302°F)</li> <li>• +100°C to +650°C (+212°F to +1202°F)</li> <li>• +300°C to +2000°C (+572°F to +3632°F)</li> </ul>
Accuracy	<ul style="list-style-type: none"> <li>• ±1°C (±1.8°F) or ±1% of reading for limited temperature range.</li> <li>• ±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.</li> </ul>
Measurement analysis	
Spotmeter	10
Area	5 areas (boxes or circles) with max./min./average
Profile	1 line profile with max/min temp
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area and profile
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets	The user can select and combine measurements from any number of spots/boxes/circles/profiles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava
Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible

**P/N: 55904-8422**

© 2015, FLIR Systems, Inc.  
#55904-8422; r. 24597; en-US

<b>Set-up</b>	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information
<b>Service functions</b>	
Camera software update	Use PC software FLIR Tools
<b>Storage of images</b>	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none"> <li>Simultaneous storage of thermal and digital photo in same JPEG file.</li> <li>Optional to store digital photo as a separate JPEG file.</li> </ul>
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image
<b>Image annotations (in still images)</b>	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> <li>Instant Report (*.pdf file) in camera</li> <li>Separate PC software with extensive report generation</li> </ul>
<b>Geographic Information System</b>	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image
<b>Video recording in camera</b>	
Radiometric IR video recording	CSQ to memory card
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card
<b>Video streaming</b>	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>
Visual video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>
<b>Digital camera</b>	
Built-in digital camera	5 Mpixels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light

**P/N: 55904-8422**

 © 2015, FLIR Systems, Inc.  
 #55904-8422; r. 24597; en-US

<b>Laser pointer</b>	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)
<b>Data communication interfaces</b>	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards
<b>USB</b>	
USB	<ul style="list-style-type: none"> <li>USB-A: Connect external USB device</li> <li>USB Mini-B: Data transfer to and from PC / uncompressed colorized video</li> </ul>
USB, standard	USB 2.0 high speed
<b>Video output</b>	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible
<b>Radio</b>	
Wi-Fi	<ul style="list-style-type: none"> <li>Standard: 802.11 b/g</li> <li>Frequency range: 2412–2462 MHz</li> <li>Max. output power: 15 dBm</li> </ul>
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal
<b>Power system</b>	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
<b>Environmental data</b>	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none"> <li>ETSI EN 301 489-1 (radio)</li> <li>ETSI EN 301 489-17</li> <li>EN 61000-6-2 (Immunity)</li> <li>EN 61000-6-3 (Emission)</li> <li>FCC 47 CFR Part 15 Class B (Emission)</li> <li>ICES-003</li> </ul>
Radio spectrum	<ul style="list-style-type: none"> <li>ETSI EN 300 328</li> <li>FCC Part 15.247</li> <li>RSS-210</li> </ul>
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)

**P/N: 55904-8422**

© 2015, FLIR Systems, Inc.  
#55904-8422; r. 24597; en-US

Environmental data	
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1
Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Battery (2 ea.)</li> <li>• Battery charger</li> <li>• Bluetooth headset</li> <li>• Calibration certificate</li> <li>• FLIR Tools download card</li> <li>• User documentation CD-ROM</li> <li>• Printed documentation</li> <li>• HDMI-DVI cable</li> <li>• HDMI-HDMI cable</li> <li>• Hard transport case</li> <li>• Large eyecap</li> <li>• Lens cap</li> <li>• Memory card</li> <li>• Neck strap</li> <li>• Power supply, incl. multi-plugs</li> <li>• Tripod adapter</li> <li>• USB cable, Std A to Mini-B</li> </ul>
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558008751
UPC-12	845188009274
Country of origin	Sweden

#### Supplies & accessories:

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9× (50 µm) with case
- T198060; Close-up IR lens, 5.8× (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5× (25 µm) with case
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T198506; Li-Ion Battery pack 3.7V 29Wh
- T911230ACC; Memory card SDHC 4 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case for T6xx series
- T198495; Pouch for FLIR T6xx and T4xx series
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt



---

**P/N: 55904-8422**

© 2015, FLIR Systems, Inc.  
#55904-8422; r. 24597; en-US

- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)

**P/N: 55904-8522**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 55904-8522  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR T660 is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 640 × 480 pixel infrared resolution. The FLIR T660 is flexible and can meet your every need.

### Benefits:

- Highest performance with the latest technology: The FLIR T660 is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. Continuous auto-focus makes the FLIR T660 the first fully automatic infrared camera on the market.
- Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T640 allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image.
- Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools.

## Imaging and optical data

IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<20 mK @ +30°C (+86°F)
Field of view (FOV)	25° × 19°
Minimum focus distance	0.25 m (0.82 ft.)
Focal length	25 mm (0.97 in.)
Spatial resolution (IFOV)	0.68 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Continuous, one shot or manual
Digital zoom	1–8× continuous
Digital image enhancement	Adaptive digital noise reduction

## Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 µm
Detector pitch	17 µm

## Image presentation

Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait

**P/N: 55904-8522**

 © 2015, FLIR Systems, Inc.  
 #55904-8522; r. 24597; en-US

Image presentation	
Viewfinder	Built-in 800 × 480 pixels
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.
Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image
Measurement	
Object temperature range	<ul style="list-style-type: none"> <li>• -40°C to +150°C (-40°F to +302°F)</li> <li>• +100°C to +650°C (+212°F to +1202°F)</li> <li>• +300°C to +2000°C (+572°F to +3632°F)</li> </ul>
Accuracy	<ul style="list-style-type: none"> <li>• ±1°C (±1.8°F) or ±1% of reading for limited temperature range.</li> <li>• ±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.</li> </ul>
Measurement analysis	
Spotmeter	10
Area	5 areas (boxes or circles) with max./min./average
Profile	1 line profile with max/min temp
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area and profile
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets	The user can select and combine measurements from any number of spots/boxes/circles/profiles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava
Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible

**P/N: 55904-8522**

© 2015, FLIR Systems, Inc.  
#55904-8522; r. 24597; en-US

<b>Set-up</b>	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information
<b>Service functions</b>	
Camera software update	Use PC software FLIR Tools
<b>Storage of images</b>	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none"> <li>Simultaneous storage of thermal and digital photo in same JPEG file.</li> <li>Optional to store digital photo as a separate JPEG file.</li> </ul>
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image
<b>Image annotations (in still images)</b>	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> <li>Instant Report (*.pdf file) in camera</li> <li>Separate PC software with extensive report generation</li> </ul>
<b>Geographic Information System</b>	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image
<b>Video recording in camera</b>	
Radiometric IR video recording	CSQ to memory card
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card
<b>Video streaming</b>	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>
Visual video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>
<b>Digital camera</b>	
Built-in digital camera	5 Mpixels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light



**P/N: 55904-8522**

 © 2015, FLIR Systems, Inc.  
 #55904-8522; r. 24597; en-US

<b>Laser pointer</b>	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)
<b>Data communication interfaces</b>	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards
<b>USB</b>	
USB	<ul style="list-style-type: none"> <li>USB-A: Connect external USB device</li> <li>USB Mini-B: Data transfer to and from PC / uncompressed colorized video</li> </ul>
USB, standard	USB 2.0 high speed
<b>Video output</b>	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible
<b>Radio</b>	
Wi-Fi	<ul style="list-style-type: none"> <li>Standard: 802.11 b/g</li> <li>Frequency range: 2412–2462 MHz</li> <li>Max. output power: 15 dBm</li> </ul>
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal
<b>Power system</b>	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
<b>Environmental data</b>	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none"> <li>ETSI EN 301 489-1 (radio)</li> <li>ETSI EN 301 489-17</li> <li>EN 61000-6-2 (Immunity)</li> <li>EN 61000-6-3 (Emission)</li> <li>FCC 47 CFR Part 15 Class B (Emission)</li> <li>ICES-003</li> </ul>
Radio spectrum	<ul style="list-style-type: none"> <li>ETSI EN 300 328</li> <li>FCC Part 15.247</li> <li>RSS-210</li> </ul>
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)

**P/N: 55904-8522**

 © 2015, FLIR Systems, Inc.  
 #55904-8522; r. 24597; en-US

Environmental data	
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1
Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Battery (2 ea.)</li> <li>• Battery charger</li> <li>• Bluetooth headset</li> <li>• Calibration certificate</li> <li>• FLIR Tools download card</li> <li>• User documentation CD-ROM</li> <li>• Printed documentation</li> <li>• HDMI-DVI cable</li> <li>• HDMI-HDMI cable</li> <li>• Hard transport case</li> <li>• Large eyecap</li> <li>• Lens cap</li> <li>• Memory card</li> <li>• Neck strap</li> <li>• Power supply, incl. multi-plugs</li> <li>• Tripod adapter</li> <li>• USB cable, Std A to Mini-B</li> </ul>
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558008720
UPC-12	845188009243
Country of origin	Sweden

**Supplies & accessories:**

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9× (50 µm) with case
- T198060; Close-up IR lens, 5.8× (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5× (25 µm) with case
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T198506; Li-Ion Battery pack 3.7V 29Wh
- T911230ACC; Memory card SDHC 4 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case for T6xx series
- T198495; Pouch for FLIR T6xx and T4xx series
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt



---

**P/N: 55904-8522**

© 2015, FLIR Systems, Inc.  
#55904-8522; r. 24597; en-US

- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)

**P/N: 55904-8622**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 55904-8622  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR T660 is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 640 × 480 pixel infrared resolution. The FLIR T660 is flexible and can meet your every need.

### Benefits:

- Highest performance with the latest technology: The FLIR T660 is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. Continuous auto-focus makes the FLIR T660 the first fully automatic infrared camera on the market.
- Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T660 allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image.
- Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools.

## Imaging and optical data

IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<20 mK @ +30°C (+86°F)
Field of view (FOV)	45° × 34°
Minimum focus distance	0.15 m (0.49 ft.)
Focal length	13 mm (0.52 in.)
Spatial resolution (IFOV)	1.30 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Continuous, one shot or manual
Digital zoom	1–8× continuous
Digital image enhancement	Adaptive digital noise reduction

## Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 µm
Detector pitch	17 µm

## Image presentation

Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait

**P/N: 55904-8622**

 © 2015, FLIR Systems, Inc.  
 #55904-8622; r. 24597; en-US

Image presentation	
Viewfinder	Built-in 800 × 480 pixels
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.
Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image
Measurement	
Object temperature range	<ul style="list-style-type: none"> <li>• -40°C to +150°C (-40°F to +302°F)</li> <li>• +100°C to +650°C (+212°F to +1202°F)</li> <li>• +300°C to +2000°C (+572°F to +3632°F)</li> </ul>
Accuracy	<ul style="list-style-type: none"> <li>• ±1°C (±1.8°F) or ±1% of reading for limited temperature range.</li> <li>• ±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.</li> </ul>
Measurement analysis	
Spotmeter	10
Area	5 areas (boxes or circles) with max./min./average
Profile	1 line profile with max/min temp
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area and profile
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets	The user can select and combine measurements from any number of spots/boxes/circles/profiles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava
Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible

**P/N: 55904-8622**

© 2015, FLIR Systems, Inc.  
#55904-8622; r. 24597; en-US

<b>Set-up</b>	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information
<b>Service functions</b>	
Camera software update	Use PC software FLIR Tools
<b>Storage of images</b>	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none"> <li>Simultaneous storage of thermal and digital photo in same JPEG file.</li> <li>Optional to store digital photo as a separate JPEG file.</li> </ul>
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image
<b>Image annotations (in still images)</b>	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> <li>Instant Report (*.pdf file) in camera</li> <li>Separate PC software with extensive report generation</li> </ul>
<b>Geographic Information System</b>	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image
<b>Video recording in camera</b>	
Radiometric IR video recording	CSQ to memory card
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card
<b>Video streaming</b>	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>
Visual video streaming	<ul style="list-style-type: none"> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>
<b>Digital camera</b>	
Built-in digital camera	5 Mpixels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light

**P/N: 55904-8622**

 © 2015, FLIR Systems, Inc.  
 #55904-8622; r. 24597; en-US

<b>Laser pointer</b>	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)
<b>Data communication interfaces</b>	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards
<b>USB</b>	
USB	<ul style="list-style-type: none"> <li>USB-A: Connect external USB device</li> <li>USB Mini-B: Data transfer to and from PC / uncompressed colorized video</li> </ul>
USB, standard	USB 2.0 high speed
<b>Video output</b>	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible
<b>Radio</b>	
Wi-Fi	<ul style="list-style-type: none"> <li>Standard: 802.11 b/g</li> <li>Frequency range: 2412–2462 MHz</li> <li>Max. output power: 15 dBm</li> </ul>
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal
<b>Power system</b>	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
<b>Environmental data</b>	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none"> <li>ETSI EN 301 489-1 (radio)</li> <li>ETSI EN 301 489-17</li> <li>EN 61000-6-2 (Immunity)</li> <li>EN 61000-6-3 (Emission)</li> <li>FCC 47 CFR Part 15 Class B (Emission)</li> <li>ICES-003</li> </ul>
Radio spectrum	<ul style="list-style-type: none"> <li>ETSI EN 300 328</li> <li>FCC Part 15.247</li> <li>RSS-210</li> </ul>
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)

**P/N: 55904-8622**

© 2015, FLIR Systems, Inc.  
#55904-8622; r. 24597; en-US

Environmental data	
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1
Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Battery (2 ea.)</li> <li>• Battery charger</li> <li>• Bluetooth headset</li> <li>• Calibration certificate</li> <li>• FLIR Tools download card</li> <li>• User documentation CD-ROM</li> <li>• Printed documentation</li> <li>• HDMI-DVI cable</li> <li>• HDMI-HDMI cable</li> <li>• Hard transport case</li> <li>• Large eyecap</li> <li>• Lens cap</li> <li>• Memory card</li> <li>• Neck strap</li> <li>• Power supply, incl. multi-plugs</li> <li>• Tripod adapter</li> <li>• USB cable, Std A to Mini-B</li> </ul>
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558008768
UPC-12	845188009281
Country of origin	Sweden

#### Supplies & accessories:

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9× (50 µm) with case
- T198060; Close-up IR lens, 5.8× (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5× (25 µm) with case
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T198506; Li-Ion Battery pack 3.7V 29Wh
- T911230ACC; Memory card SDHC 4 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case for T6xx series
- T198495; Pouch for FLIR T6xx and T4xx series
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt





---

**P/N: 55904-8622**

© 2015, FLIR Systems, Inc.  
#55904-8622; r. 24597; en-US

- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)

# FLIR GF3xx series

---

**P/N: 44401-0201**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 44401-0201  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR GF300 is an infrared camera for optical gas imaging (OGI) that visualizes and pinpoints leaks of methane and other volatile organic compounds (VOCs), without the need to shut down the operation. The portable camera also greatly improves operator safety, by detecting emissions at a safe distance, and helps to protect the environment by tracing leaks of environmentally harmful gases.

The FLIR GF300 is used in industrial settings such as oil refineries, natural gas processing plants, offshore platforms, chemical/petrochemical industries, and biogas and power generation plants.

## Benefits:

- Improved efficiency: The FLIR GF300 reduces revenue loss by pinpointing even small gas leaks quickly and efficiently, and from a distance. It also reduces the inspection time by allowing a broad area to be scanned rapidly and without the need to interrupt the industrial process.
- Increased worker safety: OGI allows gas leaks to be detected in a non-contact mode and from a safe distance. This reduces the risk of the user being exposed to invisible and potentially harmful or explosive chemicals. With a FLIR GF300 gas imaging camera it is easy to scan areas of interest that are difficult to reach with conventional methods. The camera is ergonomically designed, with a bright LCD and tiltable viewfinder, which facilitates its use over a full working day.
- Protecting the environment: Several VOCs are dangerous to human health or cause harm to the environment, and are usually governed by regulations. Even small leaks can be detected and documented using the FLIR GF300 camera.

Detects the following gases: benzene, ethanol, ethylbenzene, heptane, hexane, isoprene, methanol, MEK, MIBK, octane, pentane, 1-pentene, toluene, xylene, butane, ethane, methane, propane, ethylene, propylene.

## Licensing and classification

License information	Interchangeable lens version of the FLIR GF3XX series requires US Department of State License and will be subject to limitations on resale, except inside US. Allow a minimum of 90 days after application submittal for approval.
---------------------	--

## Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	<15 mK @ +30°C (+86°F)
Field of view (FOV)	14.5° × 10.8°
Minimum focus distance	0.5 m (1.64 ft.)
Focal length	38 mm (1.49 in.)
Lens identification	Automatic
F-number	1.5

P/N: 44401-0201

© 2015, FLIR Systems, Inc.  
#44401-0201; r. 24597; en-US

Imaging and optical data	
Focus	Automatic (one touch) or manual (electric or on the lens)
Zoom	1–8x continuous, digital zoom
Digital image enhancement	Noise reduction filter, high sensitivity mode (HSM)
Detector data	
Detector type	Focal plane array (FPA), cooled InSb
Spectral range	3.2–3.4 $\mu\text{m}$
Detector pitch	30 $\mu\text{m}$
Sensor cooling	Stirling Microcooler (FLIR MC-3)
Detects following gases	Benzene, Ethanol, Ethylbenzene, Heptane, Hexane, Isoprene, Methanol, MEK, MIBK, Octane, Pentane, 1-Pentene, Toluene, Xylene, Butane, Ethane, Methane, Propane, Ethylene, Propylene
Electronics and data rate	
Full frame rate	60 Hz
Image presentation	
Display	Built-in widescreen, 4.3 in. LCD, 800 × 480 pixels
Viewfinder	Built-in, tiltable OLED, 800 × 480 pixels
Automatic image adjustment	Continuous/manual; linear or histogram based
Manual image adjustment	Level/span
Image presentation modes	
Image modes	IR image, visual image, high sensitivity mode (HSM)
Measurement	
Temperature range	–20°C to +350°C (–4°F to +662°F)
Set-up	
Menu commands	Level, span Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image
Color palettes	Iron, Gray, Rainbow, Arctic, Lava, Rainbow HC
Set-up commands	1 programmable button, overlay recording mode, local adaptation of units, language, date and time formats
Storage of images	
Storage media	Removable SD or SDHC memory card , two card slots
Image storage capacity	> 1200 images (JPEG) with post process capability per GB on memory card
Image storage mode	IR/visual images Visual image can automatically be associated with corresponding IR image
Periodic image storage	Every 10 seconds up to 24 hours
File formats	Standard JPEG, 14 bit measurement data included

P/N: 44401-0201

© 2015, FLIR Systems, Inc.  
#44401-0201; r. 24597; en-US

Geographic Information System	
GPS	Location data automatically added to every image from built-in GPS
Video recording in camera	
Non-radiometric IR video recording	MPEG4 (up to 60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non-radiometric IR video.
Visual video recording	MPEG4 (25 minutes/clip) to memory card
Video streaming	
Non-radiometric IR video streaming	RTP/MPEG4
Digital camera	
Built-in digital camera	3.2 Mpixels, auto focus, and two video lamps
Laser pointer	
Laser	Activated by dedicated button
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)
USB	
USB	<ul style="list-style-type: none"> <li>USB-A: Connect external USB device</li> <li>USB Mini-B: Data transfer to and from PC</li> </ul>
USB, standard	USB Mini-B: 2.0 high speed
Composite video	
Video out	Digital video output (image)
Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	7.2 V
Battery capacity	4.4 Ah
Battery operating time	> 3 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 95% capacity, charging status indicated by LED's
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
DC operation	10.8 to 16 V DC, polarity protected (proprietary protected)
Power	8.5 W typically
Start-up time	Typically 7 min. @ 25°C (+77°F)
Environmental data	
Operating temperature range	–20°C to +50°C (–4°F to +122°F)
Storage temperature range	–30°C to +60°C (–22°F to +140°F)
Humidity (operating and storage)	IEC 68-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) (2 cycles)
Directives	<ul style="list-style-type: none"> <li>73/23EEC</li> <li>2004/108/EC</li> <li>2002/95/EC</li> <li>2002/96/EC</li> </ul>

**P/N: 44401-0201**

© 2015, FLIR Systems, Inc.  
#44401-0201; r. 24597; en-US

Environmental data	
EMC	<ul style="list-style-type: none"> <li>• EN61000-6-4 (Emission)</li> <li>• EN61000-6-2 (Immunity)</li> <li>• FCC 47 CFR Part 15 class A (Emission)</li> <li>• EN 61 000-4-8, L5</li> </ul>
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	Power supply: EN/UL/IEC 60950-1

Physical data	
Camera weight, excl. lens and battery	1.94 kg (4.27 lb.)
Camera weight, incl. lens and excl. battery	2.24 kg (4.94 lb.)
Camera weight, incl. lens and battery	2.48 kg (5.47 lb.)
Battery weight	0.24 kg (0.52 lb.)
Camera size, excl. lens (L × W × H)	284 × 169 × 161 mm (11.2 × 6.7 × 6.3 in.)
Cameras size, incl. lens (L × W × H)	305 × 169 × 161 mm (12.0 × 6.7 × 6.3 in.)
Battery size (L × W × H)	141 × 47 × 28 mm (5.5 × 1.8 × 1.1 in.)
Battery charger size (L × W × H)	158 × 122 × 25 mm (6.2 × 4.8 × 1.0 in.)
Tripod mounting	UNC ¼"-20
Housing material	Aluminum, magnesium
Grip material	TPE thermoplastic elastomers

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Battery charger</li> <li>• Battery, 2 ea.</li> <li>• FLIR VideoReport PC software CD-ROM</li> <li>• Hard transport case</li> <li>• HDMI-DVI cable</li> <li>• HDMI-HDMI cable</li> <li>• Lens cap (2 ea.)</li> <li>• Lens cap (mounted on lens)</li> <li>• Memory card</li> <li>• Power supply, incl. multi-plugs</li> <li>• Printed documentation</li> <li>• Shoulder strap</li> <li>• USB cable</li> <li>• User documentation CD-ROM</li> </ul>
Packaging, weight	
Packaging, size	400 × 190 × 510 mm (15.7 × 7.5 × 20.1 in.)
EAN-13	7332558002704
UPC-12	845188001964
Country of origin	Sweden

**Supplies & accessories:**

- T197387; IR lens, 24° with case for GF300, GF309, GF320
- T197388; IR lens, 6° with case for GF300, GF309, GF320, GF346.
- T197385; IR lens, 14.5° with case for GF300, GF309, GF320
- T197692; Battery charger, incl. power supply with multi plugs
- T910814; Power supply, incl. multi plugs
- T198511; Li-Ion Battery pack 7.4V 33Wh
- T911230ACC; Memory card SDHC 4 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910815ACC; HDMI to HDMI cable 1.5 m
- T910816ACC; HDMI to DVI cable 1.5 m



---

**P/N: 44401-0201**

© 2015, FLIR Systems, Inc.  
#44401-0201; r. 24597; en-US

- T197555; Hard transport case for FLIR GF3xx-Series
- T198585; FLIR VideoReport
- DSW-10000; FLIR IR Camera Player
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

**P/N: 44402-0201**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 44402-0201  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR GF300 is an infrared camera for optical gas imaging (OGI) that visualizes and pinpoints leaks of methane and other volatile organic compounds (VOCs), without the need to shut down the operation. The portable camera also greatly improves operator safety, by detecting emissions at a safe distance, and helps to protect the environment by tracing leaks of environmentally harmful gases.

The FLIR GF300 is used in industrial settings such as oil refineries, natural gas processing plants, offshore platforms, chemical/petrochemical industries, and biogas and power generation plants.

## Benefits:

- Improved efficiency: The FLIR GF300 reduces revenue loss by pinpointing even small gas leaks quickly and efficiently, and from a distance. It also reduces the inspection time by allowing a broad area to be scanned rapidly and without the need to interrupt the industrial process.
- Increased worker safety: OGI allows gas leaks to be detected in a non-contact mode and from a safe distance. This reduces the risk of the user being exposed to invisible and potentially harmful or explosive chemicals. With a FLIR GF300 gas imaging camera it is easy to scan areas of interest that are difficult to reach with conventional methods. The camera is ergonomically designed, with a bright LCD and tiltable viewfinder, which facilitates its use over a full working day.
- Protecting the environment: Several VOCs are dangerous to human health or cause harm to the environment, and are usually governed by regulations. Even small leaks can be detected and documented using the FLIR GF300 camera.

Detects the following gases: benzene, ethanol, ethylbenzene, heptane, hexane, isoprene, methanol, MEK, MIBK, octane, pentane, 1-pentene, toluene, xylene, butane, ethane, methane, propane, ethylene, propylene.

## Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	<15 mK @ +30°C (+86°F)
Field of view (FOV)	14.5° × 10.8°
Minimum focus distance	0.5 m (1.64 ft.)
Focal length	38 mm (1.49 in.)
Lens identification	Automatic
F-number	1.5
Focus	Automatic (one touch) or manual (electric or on the lens)
Zoom	1–8× continuous, digital zoom
Digital image enhancement	Noise reduction filter, high sensitivity mode (HSM)

## Detector data

Detector type	Focal plane array (FPA), cooled InSb
Spectral range	3.2–3.4 µm



**P/N: 44402-0201**

© 2015, FLIR Systems, Inc.  
#44402-0201; r. 24597; en-US

Detector data	
Detector pitch	30 µm
Sensor cooling	Stirling Microcooler (FLIR MC-3)
Detects following gases	Benzene, Ethanol, Ethylbenzene, Heptane, Hexane, Isoprene, Methanol, MEK, MIBK, Octane, Pentane, 1-Pentene, Toluene, Xylene, Butane, Ethane, Methane, Propane, Ethylene, Propylene
Electronics and data rate	
Full frame rate	60 Hz
Image presentation	
Display	Built-in widescreen, 4.3 in. LCD, 800 × 480 pixels
Viewfinder	Built-in, tiltable OLED, 800 × 480 pixels
Automatic image adjustment	Continuous/manual; linear or histogram based
Manual image adjustment	Level/span
Image presentation modes	
Image modes	IR image, visual image, high sensitivity mode (HSM)
Measurement	
Temperature range	–20°C to +350°C (–4°F to +662°F)
Set-up	
Menu commands	Level, span Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image
Color palettes	Iron, Gray, Rainbow, Arctic, Lava, Rainbow HC
Set-up commands	1 programmable button, overlay recording mode, local adaptation of units, language, date and time formats
Storage of images	
Storage media	Removable SD or SDHC memory card , two card slots
Image storage capacity	> 1200 images (JPEG) with post process capability per GB on memory card
Image storage mode	IR/visual images Visual image can automatically be associated with corresponding IR image
Periodic image storage	Every 10 seconds up to 24 hours
File formats	Standard JPEG, 14 bit measurement data included
Geographic Information System	
GPS	Location data automatically added to every image from built-in GPS
Video recording in camera	
Non-radiometric IR video recording	MPEG4 (up to 60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non-radiometric IR video.
Visual video recording	MPEG4 (25 minutes/clip) to memory card

**P/N: 44402-0201**

 © 2015, FLIR Systems, Inc.  
 #44402-0201; r. 24597; en-US

<b>Video streaming</b>	
Non-radiometric IR video streaming	RTP/MPEG4
<b>Digital camera</b>	
Built-in digital camera	3.2 Mpixels, auto focus, and two video lamps
<b>Laser pointer</b>	
Laser	Activated by dedicated button
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)
<b>USB</b>	
USB	<ul style="list-style-type: none"> <li>• USB-A: Connect external USB device</li> <li>• USB Mini-B: Data transfer to and from PC</li> </ul>
USB, standard	USB Mini-B: 2.0 high speed
<b>Composite video</b>	
Video out	Digital video output (image)
<b>Power system</b>	
Battery type	Rechargeable Li ion battery
Battery voltage	7.2 V
Battery capacity	4.4 Ah
Battery operating time	> 3 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 95% capacity, charging status indicated by LED's
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
DC operation	10.8 to 16 V DC, polarity protected (proprietary protected)
Power	8.5 W typically
Start-up time	Typically 7 min. @ 25°C (+77°F)
<b>Environmental data</b>	
Operating temperature range	–20°C to +50°C (–4°F to +122°F)
Storage temperature range	–30°C to +60°C (–22°F to +140°F)
Humidity (operating and storage)	IEC 68-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) (2 cycles)
Directives	<ul style="list-style-type: none"> <li>• 73/23EEC</li> <li>• 2004/108/EC</li> <li>• 2002/95/EC</li> <li>• 2002/96/EC</li> </ul>
EMC	<ul style="list-style-type: none"> <li>• EN61000-6-4 (Emission)</li> <li>• EN61000-6-2 (Immunity)</li> <li>• FCC 47 CFR Part 15 class A (Emission)</li> <li>• EN 61 000-4-8, L5</li> </ul>
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	Power supply: EN/UL/IEC 60950-1
<b>Physical data</b>	
Camera weight, excl. lens and battery	1.94 kg (4.27 lb.)
Camera weight, incl. lens and excl. battery	2.24 kg (4.94 lb.)
Camera weight, incl. lens and battery	2.48 kg (5.47 lb.)

**P/N: 44402-0201**

© 2015, FLIR Systems, Inc.  
#44402-0201; r. 24597; en-US

<b>Physical data</b>	
Battery weight	0.24 kg (0.52 lb.)
Camera size, excl. lens (L × W × H)	284 × 169 × 161 mm (11.2 × 6.7 × 6.3 in.)
Cameras size, incl. lens (L × W × H)	305 × 169 × 161 mm (12.0 × 6.7 × 6.3 in.)
Battery size (L × W × H)	141 × 47 × 28 mm (5.5 × 1.8 × 1.1 in.)
Battery charger size (L × W × H)	158 × 122 × 25 mm (6.2 × 4.8 × 1.0 in.)
Tripod mounting	UNC ¼"-20
Housing material	Aluminum, magnesium
Grip material	TPE thermoplastic elastomers
<b>Shipping information</b>	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Battery charger</li> <li>• Battery, 2 ea.</li> <li>• FLIR VideoReport PC software CD-ROM</li> <li>• Hard transport case</li> <li>• HDMI-DVI cable</li> <li>• HDMI-HDMI cable</li> <li>• Lens cap (mounted on lens)</li> <li>• Memory card</li> <li>• Power supply, incl. multi-plugs</li> <li>• Printed documentation</li> <li>• Shoulder strap</li> <li>• USB cable</li> <li>• User documentation CD-ROM</li> </ul>
Packaging, weight	
Packaging, size	400 × 190 × 510 mm (15.7 × 7.5 × 20.1 in.)
EAN-13	7332558002711
UPC-12	845188001971
Country of origin	Sweden

**Supplies & accessories:**

- T197692; Battery charger, incl. power supply with multi plugs
- T910814; Power supply, incl. multi plugs
- T198511; Li-Ion Battery pack 7.4V 33Wh
- T911230ACC; Memory card SDHC 4 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910815ACC; HDMI to HDMI cable 1.5 m
- T910816ACC; HDMI to DVI cable 1.5 m
- T197555; Hard transport case for FLIR GF3xx-Series
- T198585; FLIR VideoReport
- DSW-10000; FLIR IR Camera Player
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

**P/N: 44401-0202**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 44401-0202  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR GF300 is an infrared camera for optical gas imaging (OGI) that visualizes and pinpoints leaks of methane and other volatile organic compounds (VOCs), without the need to shut down the operation. The portable camera also greatly improves operator safety, by detecting emissions at a safe distance, and helps to protect the environment by tracing leaks of environmentally harmful gases.

The FLIR GF300 is used in industrial settings such as oil refineries, natural gas processing plants, offshore platforms, chemical/petrochemical industries, and biogas and power generation plants.

## Benefits:

- Improved efficiency: The FLIR GF300 reduces revenue loss by pinpointing even small gas leaks quickly and efficiently, and from a distance. It also reduces the inspection time by allowing a broad area to be scanned rapidly and without the need to interrupt the industrial process.
- Increased worker safety: OGI allows gas leaks to be detected in a non-contact mode and from a safe distance. This reduces the risk of the user being exposed to invisible and potentially harmful or explosive chemicals. With a FLIR GF300 gas imaging camera it is easy to scan areas of interest that are difficult to reach with conventional methods. The camera is ergonomically designed, with a bright LCD and tiltable viewfinder, which facilitates its use over a full working day.
- Protecting the environment: Several VOCs are dangerous to human health or cause harm to the environment, and are usually governed by regulations. Even small leaks can be detected and documented using the FLIR GF300 camera.

Detects the following gases: benzene, ethanol, ethylbenzene, heptane, hexane, isoprene, methanol, MEK, MIBK, octane, pentane, 1-pentene, toluene, xylene, butane, ethane, methane, propane, ethylene, propylene.

## Licensing and classification

### License information

Interchangeable lens version of the FLIR GF3XX series requires US Department of State License and will be subject to limitations on resale, except inside US. Allow a minimum of 90 days after application submittal for approval.

## Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	<15 mK @ +30°C (+86°F)
Field of view (FOV)	24° × 18°
Minimum focus distance	0.3 m (1.0 ft.)
Focal length	23 mm (0.89 in.)
Lens identification	Automatic
F-number	1.5

P/N: 44401-0202

© 2015, FLIR Systems, Inc.  
#44401-0202; r. 24597; en-US

Imaging and optical data	
Focus	Automatic (one touch) or manual (electric or on the lens)
Zoom	1–8x continuous, digital zoom
Digital image enhancement	Noise reduction filter, high sensitivity mode (HSM)
Detector data	
Detector type	Focal plane array (FPA), cooled InSb
Spectral range	3.2–3.4 $\mu\text{m}$
Detector pitch	30 $\mu\text{m}$
Sensor cooling	Stirling Microcooler (FLIR MC-3)
Detects following gases	Benzene, Ethanol, Ethylbenzene, Heptane, Hexane, Isoprene, Methanol, MEK, MIBK, Octane, Pentane, 1-Pentene, Toluene, Xylene, Butane, Ethane, Methane, Propane, Ethylene, Propylene
Electronics and data rate	
Full frame rate	60 Hz
Image presentation	
Display	Built-in widescreen, 4.3 in. LCD, 800 × 480 pixels
Viewfinder	Built-in, tiltable OLED, 800 × 480 pixels
Automatic image adjustment	Continuous/manual; linear or histogram based
Manual image adjustment	Level/span
Image presentation modes	
Image modes	IR image, visual image, high sensitivity mode (HSM)
Measurement	
Temperature range	–20°C to +350°C (–4°F to +662°F)
Set-up	
Menu commands	Level, span Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image
Color palettes	Iron, Gray, Rainbow, Arctic, Lava, Rainbow HC
Set-up commands	1 programmable button, overlay recording mode, local adaptation of units, language, date and time formats
Storage of images	
Storage media	Removable SD or SDHC memory card , two card slots
Image storage capacity	> 1200 images (JPEG) with post process capability per GB on memory card
Image storage mode	IR/visual images Visual image can automatically be associated with corresponding IR image
Periodic image storage	Every 10 seconds up to 24 hours
File formats	Standard JPEG, 14 bit measurement data included

P/N: 44401-0202

© 2015, FLIR Systems, Inc.  
#44401-0202; r. 24597; en-US

Geographic Information System	
GPS	Location data automatically added to every image from built-in GPS
Video recording in camera	
Non-radiometric IR video recording	MPEG4 (up to 60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non-radiometric IR video.
Visual video recording	MPEG4 (25 minutes/clip) to memory card
Video streaming	
Non-radiometric IR video streaming	RTP/MPEG4
Digital camera	
Built-in digital camera	3.2 Mpixels, auto focus, and two video lamps
Laser pointer	
Laser	Activated by dedicated button
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)
USB	
USB	<ul style="list-style-type: none"> <li>USB-A: Connect external USB device</li> <li>USB Mini-B: Data transfer to and from PC</li> </ul>
USB, standard	USB Mini-B: 2.0 high speed
Composite video	
Video out	Digital video output (image)
Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	7.2 V
Battery capacity	4.4 Ah
Battery operating time	> 3 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 95% capacity, charging status indicated by LED's
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
DC operation	10.8 to 16 V DC, polarity protected (proprietary protected)
Power	8.5 W typically
Start-up time	Typically 7 min. @ 25°C (+77°F)
Environmental data	
Operating temperature range	–20°C to +50°C (–4°F to +122°F)
Storage temperature range	–30°C to +60°C (–22°F to +140°F)
Humidity (operating and storage)	IEC 68-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) (2 cycles)
Directives	<ul style="list-style-type: none"> <li>73/23EEC</li> <li>2004/108/EC</li> <li>2002/95/EC</li> <li>2002/96/EC</li> </ul>

**P/N: 44401-0202**

© 2015, FLIR Systems, Inc.  
#44401-0202; r. 24597; en-US

Environmental data	
EMC	<ul style="list-style-type: none"> <li>• EN61000-6-4 (Emission)</li> <li>• EN61000-6-2 (Immunity)</li> <li>• FCC 47 CFR Part 15 class A (Emission)</li> <li>• EN 61 000-4-8, L5</li> </ul>
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	Power supply: EN/UL/IEC 60950-1

Physical data	
Camera weight, excl. lens and battery	1.94 kg (4.27 lb.)
Camera weight, incl. lens and excl. battery	2.24 kg (4.94 lb.)
Camera weight, incl. lens and battery	2.48 kg (5.47 lb.)
Battery weight	0.24 kg (0.52 lb.)
Camera size, excl. lens (L × W × H)	284 × 169 × 161 mm (11.2 × 6.7 × 6.3 in.)
Cameras size, incl. lens (L × W × H)	306 × 169 × 161 mm (12.0 × 6.7 × 6.3 in.)
Battery size (L × W × H)	141 × 47 × 28 mm (5.5 × 1.8 × 1.1 in.)
Battery charger size (L × W × H)	158 × 122 × 25 mm (6.2 × 4.8 × 1.0 in.)
Tripod mounting	UNC ¼"-20
Housing material	Aluminum, magnesium
Grip material	TPE thermoplastic elastomers

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Battery charger</li> <li>• Battery, 2 ea.</li> <li>• FLIR VideoReport PC software CD-ROM</li> <li>• Hard transport case</li> <li>• HDMI-DVI cable</li> <li>• HDMI-HDMI cable</li> <li>• Lens cap (2 ea.)</li> <li>• Lens cap (mounted on lens)</li> <li>• Memory card</li> <li>• Power supply, incl. multi-plugs</li> <li>• Printed documentation</li> <li>• Shoulder strap</li> <li>• USB cable</li> <li>• User documentation CD-ROM</li> </ul>
Packaging, weight	
Packaging, size	400 × 190 × 510 mm (15.7 × 7.5 × 20.1 in.)
EAN-13	7332558002728
UPC-12	845188001988
Country of origin	Sweden

**Supplies & accessories:**

- T197387; IR lens, 24° with case for GF300, GF309, GF320
- T197388; IR lens, 6° with case for GF300, GF309, GF320, GF346.
- T197385; IR lens, 14.5° with case for GF300, GF309, GF320
- T197692; Battery charger, incl. power supply with multi plugs
- T910814; Power supply, incl. multi plugs
- T198511; Li-Ion Battery pack 7.4V 33Wh
- T911230ACC; Memory card SDHC 4 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910815ACC; HDMI to HDMI cable 1.5 m
- T910816ACC; HDMI to DVI cable 1.5 m



---

**P/N: 44401-0202**

© 2015, FLIR Systems, Inc.  
#44401-0202; r. 24597; en-US

- T197555; Hard transport case for FLIR GF3xx-Series
- T198585; FLIR VideoReport
- DSW-10000; FLIR IR Camera Player
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3



**P/N: 44402-0202**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 44402-0202  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR GF300 is an infrared camera for optical gas imaging (OGI) that visualizes and pinpoints leaks of methane and other volatile organic compounds (VOCs), without the need to shut down the operation. The portable camera also greatly improves operator safety, by detecting emissions at a safe distance, and helps to protect the environment by tracing leaks of environmentally harmful gases.

The FLIR GF300 is used in industrial settings such as oil refineries, natural gas processing plants, offshore platforms, chemical/petrochemical industries, and biogas and power generation plants.

## Benefits:

- Improved efficiency: The FLIR GF300 reduces revenue loss by pinpointing even small gas leaks quickly and efficiently, and from a distance. It also reduces the inspection time by allowing a broad area to be scanned rapidly and without the need to interrupt the industrial process.
- Increased worker safety: OGI allows gas leaks to be detected in a non-contact mode and from a safe distance. This reduces the risk of the user being exposed to invisible and potentially harmful or explosive chemicals. With a FLIR GF300 gas imaging camera it is easy to scan areas of interest that are difficult to reach with conventional methods. The camera is ergonomically designed, with a bright LCD and tiltable viewfinder, which facilitates its use over a full working day.
- Protecting the environment: Several VOCs are dangerous to human health or cause harm to the environment, and are usually governed by regulations. Even small leaks can be detected and documented using the FLIR GF300 camera.

Detects the following gases: benzene, ethanol, ethylbenzene, heptane, hexane, isoprene, methanol, MEK, MIBK, octane, pentane, 1-pentene, toluene, xylene, butane, ethane, methane, propane, ethylene, propylene.

## Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	<15 mK @ +30°C (+86°F)
Field of view (FOV)	24° × 18°
Minimum focus distance	0.3 m (1.0 ft.)
Focal length	23 mm (0.89 in.)
Lens identification	Automatic
F-number	1.5
Focus	Automatic (one touch) or manual (electric or on the lens)
Zoom	1–8× continuous, digital zoom
Digital image enhancement	Noise reduction filter, high sensitivity mode (HSM)

## Detector data

Detector type	Focal plane array (FPA), cooled InSb
Spectral range	3.2–3.4 µm

**P/N: 44402-0202**

© 2015, FLIR Systems, Inc.  
#44402-0202; r. 24597; en-US

Detector data	
Detector pitch	30 µm
Sensor cooling	Stirling Microcooler (FLIR MC-3)
Detects following gases	Benzene, Ethanol, Ethylbenzene, Heptane, Hexane, Isoprene, Methanol, MEK, MIBK, Octane, Pentane, 1-Pentene, Toluene, Xylene, Butane, Ethane, Methane, Propane, Ethylene, Propylene
Electronics and data rate	
Full frame rate	60 Hz
Image presentation	
Display	Built-in widescreen, 4.3 in. LCD, 800 × 480 pixels
Viewfinder	Built-in, tiltable OLED, 800 × 480 pixels
Automatic image adjustment	Continuous/manual; linear or histogram based
Manual image adjustment	Level/span
Image presentation modes	
Image modes	IR image, visual image, high sensitivity mode (HSM)
Measurement	
Temperature range	–20°C to +350°C (–4°F to +662°F)
Set-up	
Menu commands	Level, span Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image
Color palettes	Iron, Gray, Rainbow, Arctic, Lava, Rainbow HC
Set-up commands	1 programmable button, overlay recording mode, local adaptation of units, language, date and time formats
Storage of images	
Storage media	Removable SD or SDHC memory card , two card slots
Image storage capacity	> 1200 images (JPEG) with post process capability per GB on memory card
Image storage mode	IR/visual images Visual image can automatically be associated with corresponding IR image
Periodic image storage	Every 10 seconds up to 24 hours
File formats	Standard JPEG, 14 bit measurement data included
Geographic Information System	
GPS	Location data automatically added to every image from built-in GPS
Video recording in camera	
Non-radiometric IR video recording	MPEG4 (up to 60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non-radiometric IR video.
Visual video recording	MPEG4 (25 minutes/clip) to memory card

P/N: 44402-0202

© 2015, FLIR Systems, Inc.  
#44402-0202; r. 24597; en-US

<b>Video streaming</b>	
Non-radiometric IR video streaming	RTP/MPEG4
<b>Digital camera</b>	
Built-in digital camera	3.2 Mpixels, auto focus, and two video lamps
<b>Laser pointer</b>	
Laser	Activated by dedicated button
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)
<b>USB</b>	
USB	<ul style="list-style-type: none"> <li>USB-A: Connect external USB device</li> <li>USB Mini-B: Data transfer to and from PC</li> </ul>
USB, standard	USB Mini-B: 2.0 high speed
<b>Composite video</b>	
Video out	Digital video output (image)
<b>Power system</b>	
Battery type	Rechargeable Li ion battery
Battery voltage	7.2 V
Battery capacity	4.4 Ah
Battery operating time	> 3 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 95% capacity, charging status indicated by LED's
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
DC operation	10.8 to 16 V DC, polarity protected (proprietary protected)
Power	8.5 W typically
Start-up time	Typically 7 min. @ 25°C (+77°F)
<b>Environmental data</b>	
Operating temperature range	–20°C to +50°C (–4°F to +122°F)
Storage temperature range	–30°C to +60°C (–22°F to +140°F)
Humidity (operating and storage)	IEC 68-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) (2 cycles)
Directives	<ul style="list-style-type: none"> <li>73/23EEC</li> <li>2004/108/EC</li> <li>2002/95/EC</li> <li>2002/96/EC</li> </ul>
EMC	<ul style="list-style-type: none"> <li>EN61000-6-4 (Emission)</li> <li>EN61000-6-2 (Immunity)</li> <li>FCC 47 CFR Part 15 class A (Emission)</li> <li>EN 61 000-4-8, L5</li> </ul>
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	Power supply: EN/UL/IEC 60950-1
<b>Physical data</b>	
Camera weight, excl. lens and battery	1.94 kg (4.27 lb.)
Camera weight, incl. lens and excl. battery	2.24 kg (4.94 lb.)
Camera weight, incl. lens and battery	2.48 kg (5.47 lb.)

**P/N: 44402-0202**

© 2015, FLIR Systems, Inc.  
#44402-0202; r. 24597; en-US

<b>Physical data</b>	
Battery weight	0.24 kg (0.52 lb.)
Camera size, excl. lens (L × W × H)	284 × 169 × 161 mm (11.2 × 6.7 × 6.3 in.)
Cameras size, incl. lens (L × W × H)	306 × 169 × 161 mm (12.0 × 6.7 × 6.3 in.)
Battery size (L × W × H)	141 × 47 × 28 mm (5.5 × 1.8 × 1.1 in.)
Battery charger size (L × W × H)	158 × 122 × 25 mm (6.2 × 4.8 × 1.0 in.)
Tripod mounting	UNC ¼"-20
Housing material	Aluminum, magnesium
Grip material	TPE thermoplastic elastomers
<b>Shipping information</b>	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Battery charger</li> <li>• Battery, 2 ea.</li> <li>• FLIR VideoReport PC software CD-ROM</li> <li>• Hard transport case</li> <li>• HDMI-DVI cable</li> <li>• HDMI-HDMI cable</li> <li>• Lens cap (mounted on lens)</li> <li>• Memory card</li> <li>• Power supply, incl. multi-plugs</li> <li>• Printed documentation</li> <li>• Shoulder strap</li> <li>• USB cable</li> <li>• User documentation CD-ROM</li> </ul>
Packaging, weight	
Packaging, size	400 × 190 × 510 mm (15.7 × 7.5 × 20.1 in.)
EAN-13	7332558002735
UPC-12	845188001995
Country of origin	Sweden

**Supplies & accessories:**

- T197692; Battery charger, incl. power supply with multi plugs
- T910814; Power supply, incl. multi plugs
- T198511; Li-Ion Battery pack 7.4V 33Wh
- T911230ACC; Memory card SDHC 4 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910815ACC; HDMI to HDMI cable 1.5 m
- T910816ACC; HDMI to DVI cable 1.5 m
- T197555; Hard transport case for FLIR GF3xx-Series
- T198585; FLIR VideoReport
- DSW-10000; FLIR IR Camera Player
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

**P/N: 59601-0101**

**Copyright**

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

**Document identity**

Publ. No.: 59601-0101  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

**Corporate Headquarters**

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

**Website**

<http://www.flir.com>

**Customer support**

<http://support.flir.com>

**Disclaimer**

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



**General description**

The FLIR GF304 is an infrared camera for optical gas imaging (OGI) that visualizes and pinpoints leaks of refrigerant gases, without the need to shut down the operation. This portable camera also greatly improves operator safety, by detecting gases at a safe distance, and helps to protect the environment by tracing leaks of environmentally harmful gases.

Refrigerant gases are found in, for example, the food, chemical/petrochemical, and automotive industries, as well as in air-conditioning systems.

**Benefits:**

- **Improved efficiency:** The FLIR GF304 reduces revenue loss by pinpointing even small gas leaks quickly and efficiently, and from a distance. It also reduces the inspection time by being able to scan a broad area rapidly without the need to interrupt the industrial process. The wireless connectivity of the camera allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The FLIR GF304 can also be used for temperature measurement, which makes it even more useful for predictive maintenance.
- **Increased worker safety:** The leak detection of gases can be performed in non-contact mode, and from a safe distance. This reduces the risk of the user being exposed to invisible and potentially harmful or explosive chemicals. With a FLIR GF304 gas-imaging camera it is easy to scan areas of interest that are difficult to reach with conventional methods. The camera is ergonomically designed, with a bright LCD and a tiltable viewfinder, which facilitates its use over a full working day.
- **Protecting the environment:** Several refrigerant gases have a high global warming potential and are usually governed by regulations. Even small leaks can be detected and documented using the FLIR GF304 camera.

Detects the following refrigerant gases: R404A, R407C, R410A, R134A, R417A, R422A, R507A, R143A, R125, R245fa.

**Licensing and classification**

**License information**

Interchangeable lens version of the FLIR GF3XX series requires US Department of State License and will be subject to limitations on resale, except inside US. Allow a minimum of 90 days after application submittal for approval.

**Imaging and optical data**

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	<15 mK @ +30°C (+86°F)
Field of view (FOV)	14.5° × 10.8°
Minimum focus distance	0.5 m (1.64 ft.)
Focal length	38 mm (1.49 in.)
Lens identification	Automatic
F-number	1.5
Focus	Automatic (one touch) or manual (electric or on the lens)

P/N: 59601-0101

© 2015, FLIR Systems, Inc.  
#59601-0101; r. 24597; en-US

Imaging and optical data	
Zoom	1–8× continuous, digital zoom
Digital image enhancement	Noise reduction filter, high sensitivity mode (HSM)
Detector data	
Detector type	Focal plane array (FPA), cooled QWIP
Spectral range	8.0–8.6 μm
Detector pitch	30 μm
Sensor cooling	Stirling Microcooler (FLIR MC-3)
Detects following gases	R404A, R407C, R410A, R417A, R422A, R507A, R143A, R125, R134A, R245fa
Electronics and data rate	
Full frame rate	60 Hz
Image presentation	
Display	Built-in widescreen, 4.3 in. LCD, 800 × 480 pixels
Viewfinder	Built-in, tiltable OLED, 800 × 480 pixels
Automatic image adjustment	Continuous/manual; linear or histogram based
Manual image adjustment	Level/span
Image presentation modes	
Image modes	IR image, visual image, high sensitivity mode (HSM)
Measurement	
Temperature range	–20°C to +250°C (–4°F to +482°F)
Accuracy	±1°C (±1.8°F) for temperature range (0°C, to +100°C, +32°F to +212°F) or ±2% of reading for temperature range (>+100°C, >+212°F)
Measurement analysis	
Spotmeter	10
Area	5 boxes with max./min./average
Profile	1 live line (horizontal or vertical)
Isotherm	Above/below/interval
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Emissivity correction	Variable from 0.01 to 1.0 or selected from editable materials list
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
Measurement corrections	Reflected temperature, distance, atmospheric transmission, humidity, external optics

**P/N: 59601-0101**

© 2015, FLIR Systems, Inc.  
#59601-0101; r. 24597; en-US

<b>Set-up</b>	
Menu commands	Level, span Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image
Color palettes	Iron, Gray, Rainbow, Arctic, Lava, Rainbow HC
Set-up commands	1 programmable button, overlay recording mode, local adaptation of units, language, date and time formats
<b>Storage of images</b>	
Storage media	Removable SD or SDHC memory card , two card slots
Image storage capacity	> 1200 images (JPEG) with post process capability per GB on memory card
Image storage mode	IR/visual images Visual image can automatically be associated with corresponding IR image
Periodic image storage	Every 10 seconds up to 24 hours
File formats	Standard JPEG, 14 bit measurement data included
<b>Geographic Information System</b>	
GPS	Location data automatically added to every image from built-in GPS
<b>Video recording in camera</b>	
Non-radiometric IR video recording	MPEG4 (up to 60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non-radiometric IR video.
Visual video recording	MPEG4 (25 minutes/clip) to memory card
<b>Video streaming</b>	
Non-radiometric IR video streaming	RTP/MPEG4
<b>Digital camera</b>	
Built-in digital camera	3.2 Mpixels, auto focus, and two video lamps
<b>Laser pointer</b>	
Laser	Activated by dedicated button
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)
<b>USB</b>	
USB	<ul style="list-style-type: none"> <li>USB-A: Connect external USB device</li> <li>USB Mini-B: Data transfer to and from PC</li> </ul>
USB, standard	USB Mini-B: 2.0 high speed
<b>Composite video</b>	
Video out	Digital video output (image)
<b>Power system</b>	
Battery type	Rechargeable Li ion battery
Battery voltage	7.2 V

**P/N: 59601-0101**

© 2015, FLIR Systems, Inc.  
#59601-0101; r. 24597; en-US

<b>Power system</b>	
Battery capacity	4.4 Ah
Battery operating time	> 3 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 95% capacity, charging status indicated by LED's
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
DC operation	10.8 to 16 V DC, polarity protected (proprietary protected)
Power	8.5 W typically
Start-up time	Typically 8 min. @ 25°C (+77°F)
<b>Environmental data</b>	
Operating temperature range	–20°C to +40°C (–4°F to +104°F)
Storage temperature range	–30°C to +60°C (–22°F to +140°F)
Humidity (operating and storage)	IEC 68-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) (2 cycles)
Directives	<ul style="list-style-type: none"> <li>• 73/23EEC</li> <li>• 2004/108/EC</li> <li>• 2002/95/EC</li> <li>• 2002/96/EC</li> </ul>
EMC	<ul style="list-style-type: none"> <li>• EN61000-6-4 (Emission)</li> <li>• EN61000-6-2 (Immunity)</li> <li>• FCC 47 CFR Part 15 class A (Emission)</li> <li>• EN 61 000-4-8, L5</li> </ul>
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	Power supply: EN/UL/IEC 60950-1
<b>Physical data</b>	
Camera weight, excl. lens and battery	1.94 kg (4.27 lb.)
Camera weight, incl. lens and excl. battery	2.24 kg (4.94 lb.)
Camera weight, incl. lens and battery	2.48 kg (5.47 lb.)
Battery weight	0.24 kg (0.52 lb.)
Camera size, excl. lens (L × W × H)	284 × 169 × 161 mm (11.2 × 6.7 × 6.3 in.)
Cameras size, incl. lens (L × W × H)	305 × 169 × 161 mm (12.0 × 6.7 × 6.3 in.)
Battery size (L × W × H)	141 × 47 × 28 mm (5.5 × 1.8 × 1.1 in.)
Battery charger size (L × W × H)	158 × 122 × 25 mm (6.2 × 4.8 × 1.0 in.)
Tripod mounting	UNC ¼"-20
Housing material	Aluminum, magnesium
Grip material	TPE thermoplastic elastomers



P/N: 59601-0101

© 2015, FLIR Systems, Inc.  
#59601-0101; r. 24597; en-US

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Battery charger</li> <li>• Battery, 2 ea.</li> <li>• FLIR Tools download card</li> <li>• FLIR VideoReport PC software CD-ROM</li> <li>• Hard transport case</li> <li>• HDMI-DVI cable</li> <li>• HDMI-HDMI cable</li> <li>• Lens cap (2 ea.)</li> <li>• Lens cap (mounted on lens)</li> <li>• Memory card</li> <li>• Power supply, incl. multi-plugs</li> <li>• Printed documentation</li> <li>• Shoulder strap</li> <li>• USB cable</li> <li>• User documentation CD-ROM</li> <li>• Wi-Fi USB micro adapter (depending on CE and FCC regulations regarding wireless equipment for your country)</li> </ul>
Packaging, weight	
Packaging, size	400 × 190 × 510 mm (15.7 × 7.5 × 20.1 in.)

#### Supplies & accessories:

- T197386; IR lens, 24° with case for GF304, GF306
- T197384; IR lens, 14.5° with case for GF304, GF306
- T197692; Battery charger, incl. power supply with multi plugs
- T910814; Power supply, incl. multi plugs
- T198511; Li-Ion Battery pack 7.4V 33Wh
- T911230ACC; Memory card SDHC 4 GB
- T910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910815ACC; HDMI to HDMI cable 1.5 m
- T910816ACC; HDMI to DVI cable 1.5 m
- T197555; Hard transport case for FLIR GF3xx-Series
- T951387; Wi-Fi USB micro adapter
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- T198585; FLIR VideoReport
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

**P/N: 59602-0101**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 59602-0101  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR GF304 is an infrared camera for optical gas imaging (OGI) that visualizes and pinpoints leaks of refrigerant gases, without the need to shut down the operation. This portable camera also greatly improves operator safety, by detecting gases at a safe distance, and helps to protect the environment by tracing leaks of environmentally harmful gases.

Refrigerant gases are found in, for example, the food, chemical/petrochemical, and automotive industries, as well as in air-conditioning systems.

## Benefits:

- **Improved efficiency:** The FLIR GF304 reduces revenue loss by pinpointing even small gas leaks quickly and efficiently, and from a distance. It also reduces the inspection time by being able to scan a broad area rapidly without the need to interrupt the industrial process. The wireless connectivity of the camera allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The FLIR GF304 can also be used for temperature measurement, which makes it even more useful for predictive maintenance.
- **Increased worker safety:** The leak detection of gases can be performed in non-contact mode, and from a safe distance. This reduces the risk of the user being exposed to invisible and potentially harmful or explosive chemicals. With a FLIR GF304 gas-imaging camera it is easy to scan areas of interest that are difficult to reach with conventional methods. The camera is ergonomically designed, with a bright LCD and a tiltable viewfinder, which facilitates its use over a full working day.
- **Protecting the environment:** Several refrigerant gases have a high global warming potential and are usually governed by regulations. Even small leaks can be detected and documented using the FLIR GF304 camera.

Detects the following refrigerant gases: R404A, R407C, R410A, R134A, R417A, R422A, R507A, R143A, R125, R245fa.

## Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	<15 mK @ +30°C (+86°F)
Field of view (FOV)	14.5° × 10.8°
Minimum focus distance	0.5 m (1.64 ft.)
Focal length	38 mm (1.49 in.)
Lens identification	Automatic
F-number	1.5
Focus	Automatic (one touch) or manual (electric or on the lens)
Zoom	1–8× continuous, digital zoom
Digital image enhancement	Noise reduction filter, high sensitivity mode (HSM)

## Detector data

Detector type	Focal plane array (FPA), cooled QWIP
Spectral range	8.0–8.6 μm

**P/N: 59602-0101**

© 2015, FLIR Systems, Inc.  
#59602-0101; r. 24597; en-US

Detector data	
Detector pitch	30 µm
Sensor cooling	Stirling Microcooler (FLIR MC-3)
Detects following gases	R404A, R407C, R410A, R417A, R422A, R507A, R143A, R125, R134A, R245fa
Electronics and data rate	
Full frame rate	60 Hz
Image presentation	
Display	Built-in widescreen, 4.3 in. LCD, 800 × 480 pixels
Viewfinder	Built-in, tiltable OLED, 800 × 480 pixels
Automatic image adjustment	Continuous/manual; linear or histogram based
Manual image adjustment	Level/span
Image presentation modes	
Image modes	IR image, visual image, high sensitivity mode (HSM)
Measurement	
Temperature range	−20°C to +250°C (−4°F to +482°F)
Accuracy	±1°C (±1.8°F) for temperature range (0°C, to +100°C, +32°F to +212°F) or ±2% of reading for temperature range (>+100°C, >+212°F)
Measurement analysis	
Spotmeter	10
Area	5 boxes with max./min./average
Profile	1 live line (horizontal or vertical)
Isotherm	Above/below/interval
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Emissivity correction	Variable from 0.01 to 1.0 or selected from editable materials list
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
Measurement corrections	Reflected temperature, distance, atmospheric transmission, humidity, external optics
Set-up	
Menu commands	Level, span Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image
Color palettes	Iron, Gray, Rainbow, Arctic, Lava, Rainbow HC
Set-up commands	1 programmable button, overlay recording mode, local adaptation of units, language, date and time formats
Storage of images	
Storage media	Removable SD or SDHC memory card , two card slots
Image storage capacity	> 1200 images (JPEG) with post process capability per GB on memory card

P/N: 59602-0101

© 2015, FLIR Systems, Inc.  
#59602-0101; r. 24597; en-US

Storage of images	
Image storage mode	IR/visual images Visual image can automatically be associated with corresponding IR image
Periodic image storage	Every 10 seconds up to 24 hours
File formats	Standard JPEG, 14 bit measurement data included
Geographic Information System	
GPS	Location data automatically added to every image from built-in GPS
Video recording in camera	
Non-radiometric IR video recording	MPEG4 (up to 60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non-radiometric IR video.
Visual video recording	MPEG4 (25 minutes/clip) to memory card
Video streaming	
Non-radiometric IR video streaming	RTP/MPEG4
Digital camera	
Built-in digital camera	3.2 Mpixels, auto focus, and two video lamps
Laser pointer	
Laser	Activated by dedicated button
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)
USB	
USB	<ul style="list-style-type: none"> <li>USB-A: Connect external USB device</li> <li>USB Mini-B: Data transfer to and from PC</li> </ul>
USB, standard	USB Mini-B: 2.0 high speed
Composite video	
Video out	Digital video output (image)
Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	7.2 V
Battery capacity	4.4 Ah
Battery operating time	> 3 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 95% capacity, charging status indicated by LED's
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
DC operation	10.8 to 16 V DC, polarity protected (proprietary protected)
Power	8.5 W typically
Start-up time	Typically 8 min. @ 25°C (+77°F)
Environmental data	
Operating temperature range	–20°C to +40°C (–4°F to +104°F)
Storage temperature range	–30°C to +60°C (–22°F to +140°F)

**P/N: 59602-0101**

© 2015, FLIR Systems, Inc.  
#59602-0101; r. 24597; en-US

<b>Environmental data</b>	
Humidity (operating and storage)	IEC 68-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) (2 cycles)
Directives	<ul style="list-style-type: none"> <li>• 73/23EEC</li> <li>• 2004/108/EC</li> <li>• 2002/95/EC</li> <li>• 2002/96/EC</li> </ul>
EMC	<ul style="list-style-type: none"> <li>• EN61000-6-4 (Emission)</li> <li>• EN61000-6-2 (Immunity)</li> <li>• FCC 47 CFR Part 15 class A (Emission)</li> <li>• EN 61 000-4-8, L5</li> </ul>
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	Power supply: EN/UL/IEC 60950-1

<b>Physical data</b>	
Camera weight, excl. lens and battery	1.94 kg (4.27 lb.)
Camera weight, incl. lens and excl. battery	2.24 kg (4.94 lb.)
Camera weight, incl. lens and battery	2.48 kg (5.47 lb.)
Battery weight	0.24 kg (0.52 lb.)
Camera size, excl. lens (L × W × H)	284 × 169 × 161 mm (11.2 × 6.7 × 6.3 in.)
Cameras size, incl. lens (L × W × H)	305 × 169 × 161 mm (12.0 × 6.7 × 6.3 in.)
Battery size (L × W × H)	141 × 47 × 28 mm (5.5 × 1.8 × 1.1 in.)
Battery charger size (L × W × H)	158 × 122 × 25 mm (6.2 × 4.8 × 1.0 in.)
Tripod mounting	UNC ¼"-20
Housing material	Aluminum, magnesium
Grip material	TPE thermoplastic elastomers

<b>Shipping information</b>	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Battery charger</li> <li>• Battery, 2 ea.</li> <li>• FLIR Tools download card</li> <li>• FLIR VideoReport PC software CD-ROM</li> <li>• Hard transport case</li> <li>• HDMI-DVI cable</li> <li>• HDMI-HDMI cable</li> <li>• Lens cap (mounted on lens)</li> <li>• Memory card</li> <li>• Power supply, incl. multi-plugs</li> <li>• Printed documentation</li> <li>• Shoulder strap</li> <li>• USB cable</li> <li>• User documentation CD-ROM</li> <li>• Wi-Fi USB micro adapter (depending on CE and FCC regulations regarding wireless equipment for your country)</li> </ul>
Packaging, weight	
Packaging, size	400 × 190 × 510 mm (15.7 × 7.5 × 20.1 in.)

**Supplies & accessories:**

- T197692; Battery charger, incl. power supply with multi plugs
- T910814; Power supply, incl. multi plugs
- T198511; Li-Ion Battery pack 7.4V 33Wh
- T911230ACC; Memory card SDHC 4 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910815ACC; HDMI to HDMI cable 1.5 m

---

**P/N: 59602-0101**

© 2015, FLIR Systems, Inc.  
#59602-0101; r. 24597; en-US

- T910816ACC; HDMI to DVI cable 1.5 m
- T197555; Hard transport case for FLIR GF3xx-Series
- T951387; Wi-Fi USB micro adapter
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- T198585; FLIR VideoReport
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

## P/N: 59601-0102

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 59601-0102  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The FLIR GF304 is an infrared camera for optical gas imaging (OGI) that visualizes and pinpoints leaks of refrigerant gases, without the need to shut down the operation. This portable camera also greatly improves operator safety, by detecting gases at a safe distance, and helps to protect the environment by tracing leaks of environmentally harmful gases.

Refrigerant gases are found in, for example, the food, chemical/petrochemical, and automotive industries, as well as in air-conditioning systems.

### Benefits:

- **Improved efficiency:** The FLIR GF304 reduces revenue loss by pinpointing even small gas leaks quickly and efficiently, and from a distance. It also reduces the inspection time by being able to scan a broad area rapidly without the need to interrupt the industrial process. The wireless connectivity of the camera allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The FLIR GF304 can also be used for temperature measurement, which makes it even more useful for predictive maintenance.
- **Increased worker safety:** The leak detection of gases can be performed in non-contact mode, and from a safe distance. This reduces the risk of the user being exposed to invisible and potentially harmful or explosive chemicals. With a FLIR GF304 gas-imaging camera it is easy to scan areas of interest that are difficult to reach with conventional methods. The camera is ergonomically designed, with a bright LCD and a tiltable viewfinder, which facilitates its use over a full working day.
- **Protecting the environment:** Several refrigerant gases have a high global warming potential and are usually governed by regulations. Even small leaks can be detected and documented using the FLIR GF304 camera.

Detects the following refrigerant gases: R404A, R407C, R410A, R134A, R417A, R422A, R507A, R143A, R125, R245fa.

### Licensing and classification

#### License information

Interchangeable lens version of the FLIR GF3XX series requires US Department of State License and will be subject to limitations on resale, except inside US. Allow a minimum of 90 days after application submittal for approval.

### Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	<15 mK @ +30°C (+86°F)
Field of view (FOV)	24° × 18°
Minimum focus distance	0.3 m (1.0 ft.)
Focal length	23 mm (0.89 in.)
Lens identification	Automatic
F-number	1.5
Focus	Automatic (one touch) or manual (electric or on the lens)

P/N: 59601-0102

© 2015, FLIR Systems, Inc.  
#59601-0102; r. 24597; en-US

Imaging and optical data	
Zoom	1–8× continuous, digital zoom
Digital image enhancement	Noise reduction filter, high sensitivity mode (HSM)
Detector data	
Detector type	Focal plane array (FPA), cooled QWIP
Spectral range	8.0–8.6 μm
Detector pitch	30 μm
Sensor cooling	Stirling Microcooler (FLIR MC-3)
Detects following gases	R404A, R407C, R410A, R417A, R422A, R507A, R143A, R125, R134A, R245fa
Electronics and data rate	
Full frame rate	60 Hz
Image presentation	
Display	Built-in widescreen, 4.3 in. LCD, 800 × 480 pixels
Viewfinder	Built-in, tiltable OLED, 800 × 480 pixels
Automatic image adjustment	Continuous/manual; linear or histogram based
Manual image adjustment	Level/span
Image presentation modes	
Image modes	IR image, visual image, high sensitivity mode (HSM)
Measurement	
Temperature range	–20°C to +250°C (–4°F to +482°F)
Accuracy	±1°C (±1.8°F) for temperature range (0°C, to +100°C, +32°F to +212°F) or ±2% of reading for temperature range (>+100°C, >+212°F)
Measurement analysis	
Spotmeter	10
Area	5 boxes with max./min./average
Profile	1 live line (horizontal or vertical)
Isotherm	Above/below/interval
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Emissivity correction	Variable from 0.01 to 1.0 or selected from editable materials list
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
Measurement corrections	Reflected temperature, distance, atmospheric transmission, humidity, external optics



**P/N: 59601-0102**

© 2015, FLIR Systems, Inc.  
#59601-0102; r. 24597; en-US

Set-up	
Menu commands	Level, span Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image
Color palettes	Iron, Gray, Rainbow, Arctic, Lava, Rainbow HC
Set-up commands	1 programmable button, overlay recording mode, local adaptation of units, language, date and time formats
Storage of images	
Storage media	Removable SD or SDHC memory card , two card slots
Image storage capacity	> 1200 images (JPEG) with post process capability per GB on memory card
Image storage mode	IR/visual images Visual image can automatically be associated with corresponding IR image
Periodic image storage	Every 10 seconds up to 24 hours
File formats	Standard JPEG, 14 bit measurement data included
Geographic Information System	
GPS	Location data automatically added to every image from built-in GPS
Video recording in camera	
Non-radiometric IR video recording	MPEG4 (up to 60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non-radiometric IR video.
Visual video recording	MPEG4 (25 minutes/clip) to memory card
Video streaming	
Non-radiometric IR video streaming	RTP/MPEG4
Digital camera	
Built-in digital camera	3.2 Mpixels, auto focus, and two video lamps
Laser pointer	
Laser	Activated by dedicated button
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)
USB	
USB	<ul style="list-style-type: none"> <li>USB-A: Connect external USB device</li> <li>USB Mini-B: Data transfer to and from PC</li> </ul>
USB, standard	USB Mini-B: 2.0 high speed
Composite video	
Video out	Digital video output (image)
Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	7.2 V

**P/N: 59601-0102**

© 2015, FLIR Systems, Inc.  
#59601-0102; r. 24597; en-US

<b>Power system</b>	
Battery capacity	4.4 Ah
Battery operating time	> 3 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 95% capacity, charging status indicated by LED's
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
DC operation	10.8 to 16 V DC, polarity protected (proprietary protected)
Power	8.5 W typically
Start-up time	Typically 8 min. @ 25°C (+77°F)
<b>Environmental data</b>	
Operating temperature range	–20°C to +40°C (–4°F to +104°F)
Storage temperature range	–30°C to +60°C (–22°F to +140°F)
Humidity (operating and storage)	IEC 68-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) (2 cycles)
Directives	<ul style="list-style-type: none"> <li>• 73/23EEC</li> <li>• 2004/108/EC</li> <li>• 2002/95/EC</li> <li>• 2002/96/EC</li> </ul>
EMC	<ul style="list-style-type: none"> <li>• EN61000-6-4 (Emission)</li> <li>• EN61000-6-2 (Immunity)</li> <li>• FCC 47 CFR Part 15 class A (Emission)</li> <li>• EN 61 000-4-8, L5</li> </ul>
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	Power supply: EN/UL/IEC 60950-1
<b>Physical data</b>	
Camera weight, excl. lens and battery	1.94 kg (4.27 lb.)
Camera weight, incl. lens and excl. battery	2.24 kg (4.94 lb.)
Camera weight, incl. lens and battery	2.48 kg (5.47 lb.)
Battery weight	0.24 kg (0.52 lb.)
Camera size, excl. lens (L × W × H)	284 × 169 × 161 mm (11.2 × 6.7 × 6.3 in.)
Cameras size, incl. lens (L × W × H)	306 × 169 × 161 mm (12.0 × 6.7 × 6.3 in.)
Battery size (L × W × H)	141 × 47 × 28 mm (5.5 × 1.8 × 1.1 in.)
Battery charger size (L × W × H)	158 × 122 × 25 mm (6.2 × 4.8 × 1.0 in.)
Tripod mounting	UNC ¼"-20
Housing material	Aluminum, magnesium
Grip material	TPE thermoplastic elastomers

**P/N: 59601-0102**

 © 2015, FLIR Systems, Inc.  
 #59601-0102; r. 24597; en-US

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Battery charger</li> <li>• Battery, 2 ea.</li> <li>• FLIR Tools download card</li> <li>• FLIR VideoReport PC software CD-ROM</li> <li>• Hard transport case</li> <li>• HDMI-DVI cable</li> <li>• HDMI-HDMI cable</li> <li>• Lens cap (2 ea.)</li> <li>• Lens cap (mounted on lens)</li> <li>• Memory card</li> <li>• Power supply, incl. multi-plugs</li> <li>• Printed documentation</li> <li>• Shoulder strap</li> <li>• USB cable</li> <li>• User documentation CD-ROM</li> <li>• Wi-Fi USB micro adapter (depending on CE and FCC regulations regarding wireless equipment for your country)</li> </ul>
Packaging, weight	
Packaging, size	400 × 190 × 510 mm (15.7 × 7.5 × 20.1 in.)

**Supplies & accessories:**

- T197386; IR lens, 24° with case for GF304, GF306
- T197384; IR lens, 14.5° with case for GF304, GF306
- T197692; Battery charger, incl. power supply with multi plugs
- T910814; Power supply, incl. multi plugs
- T198511; Li-Ion Battery pack 7.4V 33Wh
- T911230ACC; Memory card SDHC 4 GB
- T910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910815ACC; HDMI to HDMI cable 1.5 m
- T910816ACC; HDMI to DVI cable 1.5 m
- T197555; Hard transport case for FLIR GF3xx-Series
- T951387; Wi-Fi USB micro adapter
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- T198585; FLIR VideoReport
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

**P/N: 59602-0102**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 59602-0102  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR GF304 is an infrared camera for optical gas imaging (OGI) that visualizes and pinpoints leaks of refrigerant gases, without the need to shut down the operation. This portable camera also greatly improves operator safety, by detecting gases at a safe distance, and helps to protect the environment by tracing leaks of environmentally harmful gases.

Refrigerant gases are found in, for example, the food, chemical/petrochemical, and automotive industries, as well as in air-conditioning systems.

## Benefits:

- **Improved efficiency:** The FLIR GF304 reduces revenue loss by pinpointing even small gas leaks quickly and efficiently, and from a distance. It also reduces the inspection time by being able to scan a broad area rapidly without the need to interrupt the industrial process. The wireless connectivity of the camera allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The FLIR GF304 can also be used for temperature measurement, which makes it even more useful for predictive maintenance.
- **Increased worker safety:** The leak detection of gases can be performed in non-contact mode, and from a safe distance. This reduces the risk of the user being exposed to invisible and potentially harmful or explosive chemicals. With a FLIR GF304 gas-imaging camera it is easy to scan areas of interest that are difficult to reach with conventional methods. The camera is ergonomically designed, with a bright LCD and a tiltable viewfinder, which facilitates its use over a full working day.
- **Protecting the environment:** Several refrigerant gases have a high global warming potential and are usually governed by regulations. Even small leaks can be detected and documented using the FLIR GF304 camera.

Detects the following refrigerant gases: R404A, R407C, R410A, R134A, R417A, R422A, R507A, R143A, R125, R245fa.

## Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	<15 mK @ +30°C (+86°F)
Field of view (FOV)	24° × 18°
Minimum focus distance	0.3 m (1.0 ft.)
Focal length	23 mm (0.89 in.)
Lens identification	Automatic
F-number	1.5
Focus	Automatic (one touch) or manual (electric or on the lens)
Zoom	1–8× continuous, digital zoom
Digital image enhancement	Noise reduction filter, high sensitivity mode (HSM)

## Detector data

Detector type	Focal plane array (FPA), cooled QWIP
Spectral range	8.0–8.6 μm

**P/N: 59602-0102**

© 2015, FLIR Systems, Inc.  
#59602-0102; r. 24597; en-US

Detector data	
Detector pitch	30 µm
Sensor cooling	Stirling Microcooler (FLIR MC-3)
Detects following gases	R404A, R407C, R410A, R417A, R422A, R507A, R143A, R125, R134A, R245fa
Electronics and data rate	
Full frame rate	60 Hz
Image presentation	
Display	Built-in widescreen, 4.3 in. LCD, 800 × 480 pixels
Viewfinder	Built-in, tiltable OLED, 800 × 480 pixels
Automatic image adjustment	Continuous/manual; linear or histogram based
Manual image adjustment	Level/span
Image presentation modes	
Image modes	IR image, visual image, high sensitivity mode (HSM)
Measurement	
Temperature range	−20°C to +250°C (−4°F to +482°F)
Accuracy	±1°C (±1.8°F) for temperature range (0°C, to +100°C, +32°F to +212°F) or ±2% of reading for temperature range (>+100°C, >+212°F)
Measurement analysis	
Spotmeter	10
Area	5 boxes with max./min./average
Profile	1 live line (horizontal or vertical)
Isotherm	Above/below/interval
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Emissivity correction	Variable from 0.01 to 1.0 or selected from editable materials list
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
Measurement corrections	Reflected temperature, distance, atmospheric transmission, humidity, external optics
Set-up	
Menu commands	Level, span Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image
Color palettes	Iron, Gray, Rainbow, Arctic, Lava, Rainbow HC
Set-up commands	1 programmable button, overlay recording mode, local adaptation of units, language, date and time formats
Storage of images	
Storage media	Removable SD or SDHC memory card , two card slots
Image storage capacity	> 1200 images (JPEG) with post process capability per GB on memory card

P/N: 59602-0102

© 2015, FLIR Systems, Inc.  
#59602-0102; r. 24597; en-US

Storage of images	
Image storage mode	IR/visual images Visual image can automatically be associated with corresponding IR image
Periodic image storage	Every 10 seconds up to 24 hours
File formats	Standard JPEG, 14 bit measurement data included
Geographic Information System	
GPS	Location data automatically added to every image from built-in GPS
Video recording in camera	
Non-radiometric IR video recording	MPEG4 (up to 60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non-radiometric IR video.
Visual video recording	MPEG4 (25 minutes/clip) to memory card
Video streaming	
Non-radiometric IR video streaming	RTP/MPEG4
Digital camera	
Built-in digital camera	3.2 Mpixels, auto focus, and two video lamps
Laser pointer	
Laser	Activated by dedicated button
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)
USB	
USB	<ul style="list-style-type: none"> <li>USB-A: Connect external USB device</li> <li>USB Mini-B: Data transfer to and from PC</li> </ul>
USB, standard	USB Mini-B: 2.0 high speed
Composite video	
Video out	Digital video output (image)
Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	7.2 V
Battery capacity	4.4 Ah
Battery operating time	> 3 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 95% capacity, charging status indicated by LED's
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
DC operation	10.8 to 16 V DC, polarity protected (proprietary protected)
Power	8.5 W typically
Start-up time	Typically 8 min. @ 25°C (+77°F)
Environmental data	
Operating temperature range	–20°C to +40°C (–4°F to +104°F)
Storage temperature range	–30°C to +60°C (–22°F to +140°F)

**P/N: 59602-0102**

© 2015, FLIR Systems, Inc.  
#59602-0102; r. 24597; en-US

<b>Environmental data</b>	
Humidity (operating and storage)	IEC 68-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) (2 cycles)
Directives	<ul style="list-style-type: none"> <li>• 73/23EEC</li> <li>• 2004/108/EC</li> <li>• 2002/95/EC</li> <li>• 2002/96/EC</li> </ul>
EMC	<ul style="list-style-type: none"> <li>• EN61000-6-4 (Emission)</li> <li>• EN61000-6-2 (Immunity)</li> <li>• FCC 47 CFR Part 15 class A (Emission)</li> <li>• EN 61 000-4-8, L5</li> </ul>
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	Power supply: EN/UL/IEC 60950-1

<b>Physical data</b>	
Camera weight, excl. lens and battery	1.94 kg (4.27 lb.)
Camera weight, incl. lens and excl. battery	2.24 kg (4.94 lb.)
Camera weight, incl. lens and battery	2.48 kg (5.47 lb.)
Battery weight	0.24 kg (0.52 lb.)
Camera size, excl. lens (L × W × H)	284 × 169 × 161 mm (11.2 × 6.7 × 6.3 in.)
Cameras size, incl. lens (L × W × H)	306 × 169 × 161 mm (12.0 × 6.7 × 6.3 in.)
Battery size (L × W × H)	141 × 47 × 28 mm (5.5 × 1.8 × 1.1 in.)
Battery charger size (L × W × H)	158 × 122 × 25 mm (6.2 × 4.8 × 1.0 in.)
Tripod mounting	UNC ¼"-20
Housing material	Aluminum, magnesium
Grip material	TPE thermoplastic elastomers

<b>Shipping information</b>	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Battery charger</li> <li>• Battery, 2 ea.</li> <li>• FLIR Tools download card</li> <li>• FLIR VideoReport PC software CD-ROM</li> <li>• Hard transport case</li> <li>• HDMI-DVI cable</li> <li>• HDMI-HDMI cable</li> <li>• Lens cap (mounted on lens)</li> <li>• Memory card</li> <li>• Power supply, incl. multi-plugs</li> <li>• Printed documentation</li> <li>• Shoulder strap</li> <li>• USB cable</li> <li>• User documentation CD-ROM</li> <li>• Wi-Fi USB micro adapter (depending on CE and FCC regulations regarding wireless equipment for your country)</li> </ul>
Packaging, weight	
Packaging, size	400 × 190 × 510 mm (15.7 × 7.5 × 20.1 in.)

**Supplies & accessories:**

- T197692; Battery charger, incl. power supply with multi plugs
- T910814; Power supply, incl. multi plugs
- T198511; Li-Ion Battery pack 7.4V 33Wh
- T911230ACC; Memory card SDHC 4 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910815ACC; HDMI to HDMI cable 1.5 m

**P/N: 59602-0102**

© 2015, FLIR Systems, Inc.  
#59602-0102; r. 24597; en-US

- T910816ACC; HDMI to DVI cable 1.5 m
- T197555; Hard transport case for FLIR GF3xx-Series
- T951387; Wi-Fi USB micro adapter
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- T198585; FLIR VideoReport
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3



**P/N: 44201-0101**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 44201-0101  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR GF306 is an infrared camera for optical gas imaging (OGI) that visualizes and pinpoints gas leaks—especially of sulfur hexafluoride (SF<sub>6</sub>) and ammonia—without the need to de-energize high-voltage equipment or shut down the operation. The portable camera also greatly improves operator safety by detecting emissions at a safe distance, and helps to protect the environment by tracing leaks of environmentally harmful gases.

SF<sub>6</sub> is used in the electric power industry as an insulator and quenching medium for gas-insulated substations and circuit breakers. The gas is also used in magnesium production and semiconductor manufacture. Ammonia is produced in ammonia plants, and is used mainly for the production of fertilizers.

### Benefits:

- **Improved efficiency:** The FLIR GF306 reduces revenue loss by pinpointing even small gas leaks quickly and efficiently, and from a distance. It also reduces inspection time by allowing a broad area to be scanned rapidly and without the need to de-energize components in the high-voltage area. The wireless connectivity of the camera allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The FLIR GF306 can also be used for temperature measurement, which makes it even more useful for the predictive maintenance of high-voltage equipment.
- **Increased worker safety:** OGI allows gas leaks to be detected in a non-contact mode and from a safe distance. This prevents electrical exposure to personnel working in a high-voltage area. With a GF306 gas imaging camera, it is easy to scan areas of interest that are difficult to reach with conventional methods. The camera is ergonomically designed, with a bright LCD and tiltable viewfinder, which facilitates its use over a full working day.
- **Protecting the environment:** SF<sub>6</sub> is a well-known greenhouse gas that causes harm to the environment, and is usually governed by regulations. SF<sub>6</sub> has a global warming potential 24 000 times higher than carbon dioxide. Even small leaks can be detected and documented using the FLIR GF306 camera.

Detects the following gases: sulfur hexafluoride, acetyl chloride, acetic acid, allyl bromide, allyl chloride, allyl fluoride, ammonia, bromomethane, chlorine dioxide, ethyl cyanoacrylate, ethylene, furan, hydrazine, methylsilane, methyl ethyl ketone, methyl vinyl ketone, propenal, propene, R-134a, tetrahydrofuran, trichloroethylene, uranyl fluoride, vinyl chloride, vinyl cyanide, vinyl ether.

## Licensing and classification

License information	Interchangeable lens version of the FLIR GF3XX series requires US Department of State License and will be subject to limitations on resale, except inside US. Allow a minimum of 90 days after application submittal for approval.
---------------------	--

## Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	<15 mK @ +30°C (+86°F)
Field of view (FOV)	14.5° × 10.8°
Minimum focus distance	0.5 m (1.64 ft.)
Focal length	38 mm (1.49 in.)
Lens identification	Automatic
F-number	1.5

P/N: 44201-0101

© 2015, FLIR Systems, Inc.  
#44201-0101; r. 24597; en-US

Imaging and optical data	
Focus	Automatic (one touch) or manual (electric or on the lens)
Zoom	1–8x continuous, digital zoom
Digital image enhancement	Noise reduction filter, high sensitivity mode (HSM)
Detector data	
Detector type	Focal plane array (FPA), cooled QWIP
Spectral range	10.3–10.7 $\mu\text{m}$
Detector pitch	30 $\mu\text{m}$
Sensor cooling	Stirling Microcooler (FLIR MC-3)
Detects following gases	Sulfur Hexafluoride (SF <sub>6</sub> ), Acetyl Chloride, Acetic Acid, Allyl Bromide, Allyl Chloride, Allyl Fluoride, Ammonia (NH <sub>3</sub> ), Bromomethane, Chlorine Dioxide, Ethyl Cyanoacrylate, Ethylene, Furan, Hydrazine, Methylsilane, Methyl Ethyl Ketone, Methyl Vinyl Ketone, Propenal, Propene, R 134a, Tetrahydrofuran, Trichloroethylene, Uranyl Fluoride, Vinyl Chloride, Vinyl Cyanide, Vinyl Ether
Electronics and data rate	
Full frame rate	60 Hz
Image presentation	
Display	Built-in widescreen, 4.3 in. LCD, 800 × 480 pixels
Viewfinder	Built-in, tiltable OLED, 800 × 480 pixels
Automatic image adjustment	Continuous/manual; linear or histogram based
Manual image adjustment	Level/span
Image presentation modes	
Image modes	IR image, visual image, high sensitivity mode (HSM)
Measurement	
Temperature range	–40°C to +500°C (–40°F to +932°F)
Accuracy	±1°C (±1.8°F) for temperature range (0°C, to +100°C, +32°F to +212°F) or ±2% of reading for temperature range (>+100°C, >+212°F)
Measurement analysis	
Spotmeter	10
Area	5 boxes with max./min./average
Profile	1 live line (horizontal or vertical)
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Emissivity correction	Variable from 0.01 to 1.0 or selected from editable materials list
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
Measurement corrections	Reflected temperature, distance, atmospheric transmission, humidity, external optics

**P/N: 44201-0101**

© 2015, FLIR Systems, Inc.  
#44201-0101; r. 24597; en-US

Set-up	
Menu commands	Level, span Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image
Color palettes	Iron, Gray, Rainbow, Arctic, Lava, Rainbow HC
Set-up commands	1 programmable button, overlay recording mode, local adaptation of units, language, date and time formats
Storage of images	
Storage media	Removable SD or SDHC memory card , two card slots
Image storage capacity	> 1200 images (JPEG) with post process capability per GB on memory card
Image storage mode	IR/visual images Visual image can automatically be associated with corresponding IR image
Periodic image storage	Every 10 seconds up to 24 hours
File formats	Standard JPEG, 14 bit measurement data included
Geographic Information System	
GPS	Location data automatically added to every image from built-in GPS
Video recording in camera	
Non-radiometric IR video recording	MPEG4 (up to 60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non-radiometric IR video.
Visual video recording	MPEG4 (25 minutes/clip) to memory card
Video streaming	
Non-radiometric IR video streaming	RTP/MPEG4
Digital camera	
Built-in digital camera	3.2 Mpixels, auto focus, and two video lamps
Laser pointer	
Laser	Activated by dedicated button
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)
USB	
USB	<ul style="list-style-type: none"> <li>USB-A: Connect external USB device</li> <li>USB Mini-B: Data transfer to and from PC</li> </ul>
USB, standard	USB Mini-B: 2.0 high speed
Composite video	
Video out	Digital video output (image)
Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	7.2 V

**P/N: 44201-0101**

© 2015, FLIR Systems, Inc.  
#44201-0101; r. 24597; en-US

Power system	
Battery capacity	4.4 Ah
Battery operating time	> 2 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 95% capacity, charging status indicated by LED's
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
DC operation	10.8 to 16 V DC, polarity protected (proprietary protected)
Power	12.5 W typically
Start-up time	Typically 10 min. @ 25°C (+77°F)
Environmental data	
Operating temperature range	–20°C to +40°C (–4°F to +104°F)
Storage temperature range	–30°C to +60°C (–22°F to +140°F)
Humidity (operating and storage)	IEC 68-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) (2 cycles)
Directives	<ul style="list-style-type: none"> <li>• 73/23EEC</li> <li>• 2004/108/EC</li> <li>• 2002/95/EC</li> <li>• 2002/96/EC</li> </ul>
EMC	<ul style="list-style-type: none"> <li>• EN61000-6-4 (Emission)</li> <li>• EN61000-6-2 (Immunity)</li> <li>• FCC 47 CFR Part 15 class A (Emission)</li> <li>• EN 61 000-4-8, L5</li> </ul>
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	Power supply: EN/UL/IEC 60950-1
Physical data	
Camera weight, excl. lens and battery	1.94 kg (4.27 lb.)
Camera weight, incl. lens and excl. battery	2.24 kg (4.94 lb.)
Camera weight, incl. lens and battery	2.48 kg (5.47 lb.)
Battery weight	0.24 kg (0.52 lb.)
Camera size, excl. lens (L × W × H)	284 × 169 × 161 mm (11.2 × 6.7 × 6.3 in.)
Cameras size, incl. lens (L × W × H)	305 × 169 × 161 mm (12.0 × 6.7 × 6.3 in.)
Battery size (L × W × H)	141 × 47 × 28 mm (5.5 × 1.8 × 1.1 in.)
Battery charger size (L × W × H)	158 × 122 × 25 mm (6.2 × 4.8 × 1.0 in.)
Tripod mounting	UNC ¼"-20
Housing material	Aluminum, magnesium
Grip material	TPE thermoplastic elastomers

P/N: 44201-0101

© 2015, FLIR Systems, Inc.  
#44201-0101; r. 24597; en-US

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Battery charger</li> <li>• Battery, 2 ea.</li> <li>• FLIR Tools download card</li> <li>• FLIR VideoReport PC software CD-ROM</li> <li>• Hard transport case</li> <li>• HDMI-DVI cable</li> <li>• HDMI-HDMI cable</li> <li>• Lens cap (2 ea.)</li> <li>• Lens cap (mounted on lens)</li> <li>• Memory card</li> <li>• Power supply, incl. multi-plugs</li> <li>• Printed documentation</li> <li>• Shoulder strap</li> <li>• USB cable</li> <li>• User documentation CD-ROM</li> <li>• Wi-Fi USB micro adapter (depending on CE and FCC regulations regarding wireless equipment for your country)</li> </ul>
Packaging, weight	
Packaging, size	400 × 190 × 510 mm (15.7 × 7.5 × 20.1 in.)

#### Supplies & accessories:

- T197386; IR lens, 24° with case for GF304, GF306
- T197384; IR lens, 14.5° with case for GF304, GF306
- T197692; Battery charger, incl. power supply with multi plugs
- T910814; Power supply, incl. multi plugs
- T198511; Li-Ion Battery pack 7.4V 33Wh
- T911230ACC; Memory card SDHC 4 GB
- T910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910815ACC; HDMI to HDMI cable 1.5 m
- T910816ACC; HDMI to DVI cable 1.5 m
- T197555; Hard transport case for FLIR GF3xx-Series
- T951387; Wi-Fi USB micro adapter
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- T198585; FLIR VideoReport
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

**P/N: 44202-0101**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 44202-0101  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR GF306 is an infrared camera for optical gas imaging (OGI) that visualizes and pinpoints gas leaks—especially of sulfur hexafluoride (SF<sub>6</sub>) and ammonia—without the need to de-energize high-voltage equipment or shut down the operation. The portable camera also greatly improves operator safety by detecting emissions at a safe distance, and helps to protect the environment by tracing leaks of environmentally harmful gases.

SF<sub>6</sub> is used in the electric power industry as an insulator and quenching medium for gas-insulated substations and circuit breakers. The gas is also used in magnesium production and semiconductor manufacture. Ammonia is produced in ammonia plants, and is used mainly for the production of fertilizers.

## Benefits:

- **Improved efficiency:** The FLIR GF306 reduces revenue loss by pinpointing even small gas leaks quickly and efficiently, and from a distance. It also reduces inspection time by allowing a broad area to be scanned rapidly and without the need to de-energize components in the high-voltage area. The wireless connectivity of the camera allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The FLIR GF306 can also be used for temperature measurement, which makes it even more useful for the predictive maintenance of high-voltage equipment.
- **Increased worker safety:** OGI allows gas leaks to be detected in a non-contact mode and from a safe distance. This prevents electrical exposure to personnel working in a high-voltage area. With a GF306 gas imaging camera, it is easy to scan areas of interest that are difficult to reach with conventional methods. The camera is ergonomically designed, with a bright LCD and tiltable viewfinder, which facilitates its use over a full working day.
- **Protecting the environment:** SF<sub>6</sub> is a well-known greenhouse gas that causes harm to the environment, and is usually governed by regulations. SF<sub>6</sub> has a global warming potential 24 000 times higher than carbon dioxide. Even small leaks can be detected and documented using the FLIR GF306 camera.

Detects the following gases: sulfur hexafluoride, acetyl chloride, acetic acid, allyl bromide, allyl chloride, allyl fluoride, ammonia, bromomethane, chlorine dioxide, ethyl cyanoacrylate, ethylene, furan, hydrazine, methylsilane, methyl ethyl ketone, methyl vinyl ketone, propenal, propene, R-134a, tetrahydrofuran, trichloroethylene, uranyl fluoride, vinyl chloride, vinyl cyanide, vinyl ether.

## Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	<15 mK @ +30°C (+86°F)
Field of view (FOV)	14.5° × 10.8°
Minimum focus distance	0.5 m (1.64 ft.)
Focal length	38 mm (1.49 in.)
Lens identification	Automatic
F-number	1.5
Focus	Automatic (one touch) or manual (electric or on the lens)
Zoom	1–8× continuous, digital zoom
Digital image enhancement	Noise reduction filter, high sensitivity mode (HSM)

**P/N: 44202-0101**

© 2015, FLIR Systems, Inc.  
#44202-0101; r. 24597; en-US

Detector data	
Detector type	Focal plane array (FPA), cooled QWIP
Spectral range	10.3–10.7 $\mu\text{m}$
Detector pitch	30 $\mu\text{m}$
Sensor cooling	Stirling Microcooler (FLIR MC-3)
Detects following gases	Sulfur Hexafluoride (SF6), Acetyl Chloride, Acetic Acid, Allyl Bromide, Allyl Chloride, Allyl Fluoride, Ammonia (NH3), Bromomethane, Chlorine Dioxide, Ethyl Cyanoacrylate, Ethylene, Furan, Hydrazine, Methylsilane, Methyl Ethyl Ketone, Methyl Vinyl Ketone, Propenal, Propene, R 134a, Tetrahydrofuran, Trichloroethylene, Uranyl Fluoride, Vinyl Chloride, Vinyl Cyanide, Vinyl Ether
Electronics and data rate	
Full frame rate	60 Hz
Image presentation	
Display	Built-in widescreen, 4.3 in. LCD, 800 × 480 pixels
Viewfinder	Built-in, tiltable OLED, 800 × 480 pixels
Automatic image adjustment	Continuous/manual; linear or histogram based
Manual image adjustment	Level/span
Image presentation modes	
Image modes	IR image, visual image, high sensitivity mode (HSM)
Measurement	
Temperature range	–40°C to +500°C (–40°F to +932°F)
Accuracy	±1°C (±1.8°F) for temperature range (0°C, to +100°C, +32°F to +212°F) or ±2% of reading for temperature range (>+100°C, >+212°F)
Measurement analysis	
Spotmeter	10
Area	5 boxes with max./min./average
Profile	1 live line (horizontal or vertical)
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Emissivity correction	Variable from 0.01 to 1.0 or selected from editable materials list
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
Measurement corrections	Reflected temperature, distance, atmospheric transmission, humidity, external optics

**P/N: 44202-0101**

© 2015, FLIR Systems, Inc.  
#44202-0101; r. 24597; en-US

Set-up	
Menu commands	Level, span Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image
Color palettes	Iron, Gray, Rainbow, Arctic, Lava, Rainbow HC
Set-up commands	1 programmable button, overlay recording mode, local adaptation of units, language, date and time formats
Storage of images	
Storage media	Removable SD or SDHC memory card , two card slots
Image storage capacity	> 1200 images (JPEG) with post process capability per GB on memory card
Image storage mode	IR/visual images Visual image can automatically be associated with corresponding IR image
Periodic image storage	Every 10 seconds up to 24 hours
File formats	Standard JPEG, 14 bit measurement data included
Geographic Information System	
GPS	Location data automatically added to every image from built-in GPS
Video recording in camera	
Non-radiometric IR video recording	MPEG4 (up to 60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non-radiometric IR video.
Visual video recording	MPEG4 (25 minutes/clip) to memory card
Video streaming	
Non-radiometric IR video streaming	RTP/MPEG4
Digital camera	
Built-in digital camera	3.2 Mpixels, auto focus, and two video lamps
Laser pointer	
Laser	Activated by dedicated button
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)
USB	
USB	<ul style="list-style-type: none"> <li>USB-A: Connect external USB device</li> <li>USB Mini-B: Data transfer to and from PC</li> </ul>
USB, standard	USB Mini-B: 2.0 high speed
Composite video	
Video out	Digital video output (image)
Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	7.2 V



**P/N: 44202-0101**

© 2015, FLIR Systems, Inc.  
#44202-0101; r. 24597; en-US

<b>Power system</b>	
Battery capacity	4.4 Ah
Battery operating time	> 2 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 95% capacity, charging status indicated by LED's
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
DC operation	10.8 to 16 V DC, polarity protected (proprietary protected)
Power	12.5 W typically
Start-up time	Typically 10 min. @ 25°C (+77°F)
<b>Environmental data</b>	
Operating temperature range	–20°C to +40°C (–4°F to +104°F)
Storage temperature range	–30°C to +60°C (–22°F to +140°F)
Humidity (operating and storage)	IEC 68-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) (2 cycles)
Directives	<ul style="list-style-type: none"> <li>• 73/23EEC</li> <li>• 2004/108/EC</li> <li>• 2002/95/EC</li> <li>• 2002/96/EC</li> </ul>
EMC	<ul style="list-style-type: none"> <li>• EN61000-6-4 (Emission)</li> <li>• EN61000-6-2 (Immunity)</li> <li>• FCC 47 CFR Part 15 class A (Emission)</li> <li>• EN 61 000-4-8, L5</li> </ul>
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	Power supply: EN/UL/IEC 60950-1
<b>Physical data</b>	
Camera weight, excl. lens and battery	1.94 kg (4.27 lb.)
Camera weight, incl. lens and excl. battery	2.24 kg (4.94 lb.)
Camera weight, incl. lens and battery	2.48 kg (5.47 lb.)
Battery weight	0.24 kg (0.52 lb.)
Camera size, excl. lens (L × W × H)	284 × 169 × 161 mm (11.2 × 6.7 × 6.3 in.)
Cameras size, incl. lens (L × W × H)	305 × 169 × 161 mm (12.0 × 6.7 × 6.3 in.)
Battery size (L × W × H)	141 × 47 × 28 mm (5.5 × 1.8 × 1.1 in.)
Battery charger size (L × W × H)	158 × 122 × 25 mm (6.2 × 4.8 × 1.0 in.)
Tripod mounting	UNC ¼"-20
Housing material	Aluminum, magnesium
Grip material	TPE thermoplastic elastomers

**P/N: 44202-0101**

 © 2015, FLIR Systems, Inc.  
 #44202-0101; r. 24597; en-US

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Battery charger</li> <li>• Battery, 2 ea.</li> <li>• FLIR Tools download</li> <li>• FLIR VideoReport PC software CD-ROM</li> <li>• Hard transport case</li> <li>• HDMI-DVI cable</li> <li>• HDMI-HDMI cable</li> <li>• Lens cap (mounted on lens)</li> <li>• Memory card</li> <li>• Power supply, incl. multi-plugs</li> <li>• Printed documentation</li> <li>• Shoulder strap</li> <li>• USB cable</li> <li>• User documentation CD-ROM</li> <li>• Wi-Fi USB micro adapter (depending on CE and FCC regulations regarding wireless equipment for your country)</li> </ul>
Packaging, weight	8.4 kg (18.5 lb.)
Packaging, size	400 × 190 × 510 mm (15.7 × 7.5 × 20.1 in.)

**Supplies & accessories:**

- T197692; Battery charger, incl. power supply with multi plugs
- T910814; Power supply, incl. multi plugs
- T198511; Li-Ion Battery pack 7.4V 33Wh
- T911230ACC; Memory card SDHC 4 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910815ACC; HDMI to HDMI cable 1.5 m
- T910816ACC; HDMI to DVI cable 1.5 m
- T197555; Hard transport case for FLIR GF3xx-Series
- T951387; Wi-Fi USB micro adapter
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- T198585; FLIR VideoReport
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

**P/N: 44201-0102**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 44201-0102  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR GF306 is an infrared camera for optical gas imaging (OGI) that visualizes and pinpoints gas leaks—especially of sulfur hexafluoride (SF<sub>6</sub>) and ammonia—without the need to de-energize high-voltage equipment or shut down the operation. The portable camera also greatly improves operator safety by detecting emissions at a safe distance, and helps to protect the environment by tracing leaks of environmentally harmful gases.

SF<sub>6</sub> is used in the electric power industry as an insulator and quenching medium for gas-insulated substations and circuit breakers. The gas is also used in magnesium production and semiconductor manufacture. Ammonia is produced in ammonia plants, and is used mainly for the production of fertilizers.

### Benefits:

- **Improved efficiency:** The FLIR GF306 reduces revenue loss by pinpointing even small gas leaks quickly and efficiently, and from a distance. It also reduces inspection time by allowing a broad area to be scanned rapidly and without the need to de-energize components in the high-voltage area. The wireless connectivity of the camera allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The FLIR GF306 can also be used for temperature measurement, which makes it even more useful for the predictive maintenance of high-voltage equipment.
- **Increased worker safety:** OGI allows gas leaks to be detected in a non-contact mode and from a safe distance. This prevents electrical exposure to personnel working in a high-voltage area. With a GF306 gas imaging camera, it is easy to scan areas of interest that are difficult to reach with conventional methods. The camera is ergonomically designed, with a bright LCD and tiltable viewfinder, which facilitates its use over a full working day.
- **Protecting the environment:** SF<sub>6</sub> is a well-known greenhouse gas that causes harm to the environment, and is usually governed by regulations. SF<sub>6</sub> has a global warming potential 24 000 times higher than carbon dioxide. Even small leaks can be detected and documented using the FLIR GF306 camera.

Detects the following gases: sulfur hexafluoride, acetyl chloride, acetic acid, allyl bromide, allyl chloride, allyl fluoride, ammonia, bromomethane, chlorine dioxide, ethyl cyanoacrylate, ethylene, furan, hydrazine, methylsilane, methyl ethyl ketone, methyl vinyl ketone, propenal, propene, R-134a, tetrahydrofuran, trichloroethylene, uranyl fluoride, vinyl chloride, vinyl cyanide, vinyl ether.

## Licensing and classification

### License information

Interchangeable lens version of the FLIR GF3XX series requires US Department of State License and will be subject to limitations on resale, except inside US. Allow a minimum of 90 days after application submittal for approval.

## Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	<15 mK @ +30°C (+86°F)
Field of view (FOV)	24° × 18°
Minimum focus distance	0.3 m (1.0 ft.)
Focal length	23 mm (0.89 in.)
Lens identification	Automatic
F-number	1.5

**P/N: 44201-0102**

© 2015, FLIR Systems, Inc.  
#44201-0102; r. 24597; en-US

Imaging and optical data	
Focus	Automatic (one touch) or manual (electric or on the lens)
Zoom	1–8x continuous, digital zoom
Digital image enhancement	Noise reduction filter, high sensitivity mode (HSM)
Detector data	
Detector type	Focal plane array (FPA), cooled QWIP
Spectral range	10.3–10.7 $\mu\text{m}$
Detector pitch	30 $\mu\text{m}$
Sensor cooling	Stirling Microcooler (FLIR MC-3)
Detects following gases	Sulfur Hexafluoride (SF <sub>6</sub> ), Acetyl Chloride, Acetic Acid, Allyl Bromide, Allyl Chloride, Allyl Fluoride, Ammonia (NH <sub>3</sub> ), Bromomethane, Chlorine Dioxide, Ethyl Cyanoacrylate, Ethylene, Furan, Hydrazine, Methylsilane, Methyl Ethyl Ketone, Methyl Vinyl Ketone, Propenal, Propene, R 134a, Tetrahydrofuran, Trichloroethylene, Uranyl Fluoride, Vinyl Chloride, Vinyl Cyanide, Vinyl Ether
Electronics and data rate	
Full frame rate	60 Hz
Image presentation	
Display	Built-in widescreen, 4.3 in. LCD, 800 × 480 pixels
Viewfinder	Built-in, tiltable OLED, 800 × 480 pixels
Automatic image adjustment	Continuous/manual; linear or histogram based
Manual image adjustment	Level/span
Image presentation modes	
Image modes	IR image, visual image, high sensitivity mode (HSM)
Measurement	
Temperature range	–40°C to +500°C (–40°F to +932°F)
Accuracy	±1°C (±1.8°F) for temperature range (0°C, to +100°C, +32°F to +212°F) or ±2% of reading for temperature range (>+100°C, >+212°F)
Measurement analysis	
Spotmeter	10
Area	5 boxes with max./min./average
Profile	1 live line (horizontal or vertical)
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Emissivity correction	Variable from 0.01 to 1.0 or selected from editable materials list
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
Measurement corrections	Reflected temperature, distance, atmospheric transmission, humidity, external optics

**P/N: 44201-0102**

© 2015, FLIR Systems, Inc.  
#44201-0102; r. 24597; en-US

Set-up	
Menu commands	Level, span Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image
Color palettes	Iron, Gray, Rainbow, Arctic, Lava, Rainbow HC
Set-up commands	1 programmable button, overlay recording mode, local adaptation of units, language, date and time formats
Storage of images	
Storage media	Removable SD or SDHC memory card , two card slots
Image storage capacity	> 1200 images (JPEG) with post process capability per GB on memory card
Image storage mode	IR/visual images Visual image can automatically be associated with corresponding IR image
Periodic image storage	Every 10 seconds up to 24 hours
File formats	Standard JPEG, 14 bit measurement data included
Geographic Information System	
GPS	Location data automatically added to every image from built-in GPS
Video recording in camera	
Non-radiometric IR video recording	MPEG4 (up to 60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non-radiometric IR video.
Visual video recording	MPEG4 (25 minutes/clip) to memory card
Video streaming	
Non-radiometric IR video streaming	RTP/MPEG4
Digital camera	
Built-in digital camera	3.2 Mpixels, auto focus, and two video lamps
Laser pointer	
Laser	Activated by dedicated button
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)
USB	
USB	<ul style="list-style-type: none"> <li>USB-A: Connect external USB device</li> <li>USB Mini-B: Data transfer to and from PC</li> </ul>
USB, standard	USB Mini-B: 2.0 high speed
Composite video	
Video out	Digital video output (image)
Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	7.2 V

**P/N: 44201-0102**

© 2015, FLIR Systems, Inc.  
#44201-0102; r. 24597; en-US

Power system	
Battery capacity	4.4 Ah
Battery operating time	> 2 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 95% capacity, charging status indicated by LED's
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
DC operation	10.8 to 16 V DC, polarity protected (proprietary protected)
Power	12.5 W typically
Start-up time	Typically 10 min. @ 25°C (+77°F)
Environmental data	
Operating temperature range	–20°C to +40°C (–4°F to +104°F)
Storage temperature range	–30°C to +60°C (–22°F to +140°F)
Humidity (operating and storage)	IEC 68-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) (2 cycles)
Directives	<ul style="list-style-type: none"> <li>• 73/23EEC</li> <li>• 2004/108/EC</li> <li>• 2002/95/EC</li> <li>• 2002/96/EC</li> </ul>
EMC	<ul style="list-style-type: none"> <li>• EN61000-6-4 (Emission)</li> <li>• EN61000-6-2 (Immunity)</li> <li>• FCC 47 CFR Part 15 class A (Emission)</li> <li>• EN 61 000-4-8, L5</li> </ul>
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	Power supply: EN/UL/IEC 60950-1
Physical data	
Camera weight, excl. lens and battery	1.94 kg (4.27 lb.)
Camera weight, incl. lens and excl. battery	2.24 kg (4.94 lb.)
Camera weight, incl. lens and battery	2.48 kg (5.47 lb.)
Battery weight	0.24 kg (0.52 lb.)
Camera size, excl. lens (L × W × H)	284 × 169 × 161 mm (11.2 × 6.7 × 6.3 in.)
Cameras size, incl. lens (L × W × H)	306 × 169 × 161 mm (12.0 × 6.7 × 6.3 in.)
Battery size (L × W × H)	141 × 47 × 28 mm (5.5 × 1.8 × 1.1 in.)
Battery charger size (L × W × H)	158 × 122 × 25 mm (6.2 × 4.8 × 1.0 in.)
Tripod mounting	UNC ¼"-20
Housing material	Aluminum, magnesium
Grip material	TPE thermoplastic elastomers

**P/N: 44201-0102**

© 2015, FLIR Systems, Inc.  
#44201-0102; r. 24597; en-US

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Battery charger</li> <li>• Battery, 2 ea.</li> <li>• FLIR Tools download card</li> <li>• FLIR VideoReport PC software CD-ROM</li> <li>• Hard transport case</li> <li>• HDMI-DVI cable</li> <li>• HDMI-HDMI cable</li> <li>• Lens cap (2 ea.)</li> <li>• Lens cap (mounted on lens)</li> <li>• Memory card</li> <li>• Power supply, incl. multi-plugs</li> <li>• Printed documentation</li> <li>• Shoulder strap</li> <li>• USB cable</li> <li>• User documentation CD-ROM</li> <li>• Wi-Fi USB micro adapter (depending on CE and FCC regulations regarding wireless equipment for your country)</li> </ul>
Packaging, weight	
Packaging, size	400 × 190 × 510 mm (15.7 × 7.5 × 20.1 in.)

**Supplies & accessories:**

- T197386; IR lens, 24° with case for GF304, GF306
- T197384; IR lens, 14.5° with case for GF304, GF306
- T197692; Battery charger, incl. power supply with multi plugs
- T910814; Power supply, incl. multi plugs
- T198511; Li-Ion Battery pack 7.4V 33Wh
- T911230ACC; Memory card SDHC 4 GB
- T910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910815ACC; HDMI to HDMI cable 1.5 m
- T910816ACC; HDMI to DVI cable 1.5 m
- T197555; Hard transport case for FLIR GF3xx-Series
- T951387; Wi-Fi USB micro adapter
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- T198585; FLIR VideoReport
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

**P/N: 44202-0102**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 44202-0102  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR GF306 is an infrared camera for optical gas imaging (OGI) that visualizes and pinpoints gas leaks—especially of sulfur hexafluoride (SF<sub>6</sub>) and ammonia—without the need to de-energize high-voltage equipment or shut down the operation. The portable camera also greatly improves operator safety by detecting emissions at a safe distance, and helps to protect the environment by tracing leaks of environmentally harmful gases.

SF<sub>6</sub> is used in the electric power industry as an insulator and quenching medium for gas-insulated substations and circuit breakers. The gas is also used in magnesium production and semiconductor manufacture. Ammonia is produced in ammonia plants, and is used mainly for the production of fertilizers.

## Benefits:

- **Improved efficiency:** The FLIR GF306 reduces revenue loss by pinpointing even small gas leaks quickly and efficiently, and from a distance. It also reduces inspection time by allowing a broad area to be scanned rapidly and without the need to de-energize components in the high-voltage area. The wireless connectivity of the camera allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The FLIR GF306 can also be used for temperature measurement, which makes it even more useful for the predictive maintenance of high-voltage equipment.
- **Increased worker safety:** OGI allows gas leaks to be detected in a non-contact mode and from a safe distance. This prevents electrical exposure to personnel working in a high-voltage area. With a GF306 gas imaging camera, it is easy to scan areas of interest that are difficult to reach with conventional methods. The camera is ergonomically designed, with a bright LCD and tiltable viewfinder, which facilitates its use over a full working day.
- **Protecting the environment:** SF<sub>6</sub> is a well-known greenhouse gas that causes harm to the environment, and is usually governed by regulations. SF<sub>6</sub> has a global warming potential 24 000 times higher than carbon dioxide. Even small leaks can be detected and documented using the FLIR GF306 camera.

Detects the following gases: sulfur hexafluoride, acetyl chloride, acetic acid, allyl bromide, allyl chloride, allyl fluoride, ammonia, bromomethane, chlorine dioxide, ethyl cyanoacrylate, ethylene, furan, hydrazine, methylsilane, methyl ethyl ketone, methyl vinyl ketone, propenal, propene, R-134a, tetrahydrofuran, trichloroethylene, uranyl fluoride, vinyl chloride, vinyl cyanide, vinyl ether.

## Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	<15 mK @ +30°C (+86°F)
Field of view (FOV)	24° × 18°
Minimum focus distance	0.3 m (1.0 ft.)
Focal length	23 mm (0.89 in.)
Lens identification	Automatic
F-number	1.5
Focus	Automatic (one touch) or manual (electric or on the lens)
Zoom	1–8× continuous, digital zoom
Digital image enhancement	Noise reduction filter, high sensitivity mode (HSM)



**P/N: 44202-0102**

© 2015, FLIR Systems, Inc.  
#44202-0102; r. 24597; en-US

Detector data	
Detector type	Focal plane array (FPA), cooled QWIP
Spectral range	10.3–10.7 $\mu\text{m}$
Detector pitch	30 $\mu\text{m}$
Sensor cooling	Stirling Microcooler (FLIR MC-3)
Detects following gases	Sulfur Hexafluoride (SF6), Acetyl Chloride, Acetic Acid, Allyl Bromide, Allyl Chloride, Allyl Fluoride, Ammonia (NH3), Bromomethane, Chlorine Dioxide, Ethyl Cyanoacrylate, Ethylene, Furan, Hydrazine, Methylsilane, Methyl Ethyl Ketone, Methyl Vinyl Ketone, Propenal, Propene, R 134a, Tetrahydrofuran, Trichloroethylene, Uranyl Fluoride, Vinyl Chloride, Vinyl Cyanide, Vinyl Ether
Electronics and data rate	
Full frame rate	60 Hz
Image presentation	
Display	Built-in widescreen, 4.3 in. LCD, 800 × 480 pixels
Viewfinder	Built-in, tiltable OLED, 800 × 480 pixels
Automatic image adjustment	Continuous/manual; linear or histogram based
Manual image adjustment	Level/span
Image presentation modes	
Image modes	IR image, visual image, high sensitivity mode (HSM)
Measurement	
Temperature range	–40°C to +500°C (–40°F to +932°F)
Accuracy	±1°C (±1.8°F) for temperature range (0°C, to +100°C, +32°F to +212°F) or ±2% of reading for temperature range (>+100°C, >+212°F)
Measurement analysis	
Spotmeter	10
Area	5 boxes with max./min./average
Profile	1 live line (horizontal or vertical)
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Emissivity correction	Variable from 0.01 to 1.0 or selected from editable materials list
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
Measurement corrections	Reflected temperature, distance, atmospheric transmission, humidity, external optics

**P/N: 44202-0102**

© 2015, FLIR Systems, Inc.  
#44202-0102; r. 24597; en-US

Set-up	
Menu commands	Level, span Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image
Color palettes	Iron, Gray, Rainbow, Arctic, Lava, Rainbow HC
Set-up commands	1 programmable button, overlay recording mode, local adaptation of units, language, date and time formats
Storage of images	
Storage media	Removable SD or SDHC memory card , two card slots
Image storage capacity	> 1200 images (JPEG) with post process capability per GB on memory card
Image storage mode	IR/visual images Visual image can automatically be associated with corresponding IR image
Periodic image storage	Every 10 seconds up to 24 hours
File formats	Standard JPEG, 14 bit measurement data included
Geographic Information System	
GPS	Location data automatically added to every image from built-in GPS
Video recording in camera	
Non-radiometric IR video recording	MPEG4 (up to 60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non-radiometric IR video.
Visual video recording	MPEG4 (25 minutes/clip) to memory card
Video streaming	
Non-radiometric IR video streaming	RTP/MPEG4
Digital camera	
Built-in digital camera	3.2 Mpixels, auto focus, and two video lamps
Laser pointer	
Laser	Activated by dedicated button
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)
USB	
USB	<ul style="list-style-type: none"> <li>USB-A: Connect external USB device</li> <li>USB Mini-B: Data transfer to and from PC</li> </ul>
USB, standard	USB Mini-B: 2.0 high speed
Composite video	
Video out	Digital video output (image)
Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	7.2 V

**P/N: 44202-0102**

© 2015, FLIR Systems, Inc.  
#44202-0102; r. 24597; en-US

<b>Power system</b>	
Battery capacity	4.4 Ah
Battery operating time	> 2 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 95% capacity, charging status indicated by LED's
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
DC operation	10.8 to 16 V DC, polarity protected (proprietary protected)
Power	12.5 W typically
Start-up time	Typically 10 min. @ 25°C (+77°F)
<b>Environmental data</b>	
Operating temperature range	–20°C to +40°C (–4°F to +104°F)
Storage temperature range	–30°C to +60°C (–22°F to +140°F)
Humidity (operating and storage)	IEC 68-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) (2 cycles)
Directives	<ul style="list-style-type: none"> <li>• 73/23EEC</li> <li>• 2004/108/EC</li> <li>• 2002/95/EC</li> <li>• 2002/96/EC</li> </ul>
EMC	<ul style="list-style-type: none"> <li>• EN61000-6-4 (Emission)</li> <li>• EN61000-6-2 (Immunity)</li> <li>• FCC 47 CFR Part 15 class A (Emission)</li> <li>• EN 61 000-4-8, L5</li> </ul>
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	Power supply: EN/UL/IEC 60950-1
<b>Physical data</b>	
Camera weight, excl. lens and battery	1.94 kg (4.27 lb.)
Camera weight, incl. lens and excl. battery	2.24 kg (4.94 lb.)
Camera weight, incl. lens and battery	2.48 kg (5.47 lb.)
Battery weight	0.24 kg (0.52 lb.)
Camera size, excl. lens (L × W × H)	284 × 169 × 161 mm (11.2 × 6.7 × 6.3 in.)
Cameras size, incl. lens (L × W × H)	306 × 169 × 161 mm (12.0 × 6.7 × 6.3 in.)
Battery size (L × W × H)	141 × 47 × 28 mm (5.5 × 1.8 × 1.1 in.)
Battery charger size (L × W × H)	158 × 122 × 25 mm (6.2 × 4.8 × 1.0 in.)
Tripod mounting	UNC ¼"-20
Housing material	Aluminum, magnesium
Grip material	TPE thermoplastic elastomers

**P/N: 44202-0102**

 © 2015, FLIR Systems, Inc.  
 #44202-0102; r. 24597; en-US

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Battery charger</li> <li>• Battery, 2 ea.</li> <li>• FLIR Tools download card</li> <li>• FLIR VideoReport PC software CD-ROM</li> <li>• Hard transport case</li> <li>• HDMI-DVI cable</li> <li>• HDMI-HDMI cable</li> <li>• Lens cap (mounted on lens)</li> <li>• Memory card</li> <li>• Power supply, incl. multi-plugs</li> <li>• Printed documentation</li> <li>• Shoulder strap</li> <li>• USB cable</li> <li>• User documentation CD-ROM</li> <li>• Wi-Fi USB micro adapter (depending on CE and FCC regulations regarding wireless equipment for your country)</li> </ul>
Packaging, weight	
Packaging, size	400 × 190 × 510 mm (15.7 × 7.5 × 20.1 in.)

**Supplies & accessories:**

- T197692; Battery charger, incl. power supply with multi plugs
- T910814; Power supply, incl. multi plugs
- T198511; Li-Ion Battery pack 7.4V 33Wh
- T911230ACC; Memory card SDHC 4 GB
- T910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910815ACC; HDMI to HDMI cable 1.5 m
- T910816ACC; HDMI to DVI cable 1.5 m
- T197555; Hard transport case for FLIR GF3xx-Series
- T951387; Wi-Fi USB micro adapter
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- T198585; FLIR VideoReport
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

**P/N: 44601-0101**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 44601-0101  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR GF309 is an infrared camera for furnace and high temperature inspection (e.g., of industrial furnaces, chemical heaters, and coal-fired boilers), without the need to shut down the operation. The portable camera also greatly improves operator safety, by measuring through flames at a safe distance, for all types of furnaces. A good knowledge of the furnace condition can avert failures and unscheduled shutdowns

Industrial furnaces, heaters, and boilers are found in the chemical, petrochemical, and utility industries.

## Benefits:

- **Improved efficiency:** The FLIR GF309 reduces inspection time by measuring the temperature through flames without the need to interrupt the industrial process or await scheduled service shutdowns. A furnace camera can help you to determine how to run a furnace/boiler efficiently to give the best fuel economy and maximize production output and quality. As the FLIR GF309 has a wide temperature range, high-accuracy electrical and mechanical inspections can be performed, which makes the camera even more useful for predictive maintenance.
- **The wireless connectivity of the camera** allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera—a useful function if regulations require a second person to accompany the furnace inspector or thermal images needs to be sent quickly for a second opinion.
- **Increased worker safety:** High-temperature measurement can be performed through flames in a non-contact mode, and from a safe distance. Custom-built, the FLIR GF309 also features a detachable heat-shield designed to reflect heat away from the camera and the camera operator, providing increased protection. The camera is ergonomically designed, with a bright LCD and tiltable viewfinder, which facilitates its use over a full working day.
- **Increased furnace safety:** Good knowledge of furnace/boiler condition and operating parameters can provide the information needed to avert catastrophic failures and prevent unscheduled shutdowns.

## Licensing and classification

### License information

Interchangeable lens version of the FLIR GF3XX series requires US Department of State License and will be subject to limitations on resale, except inside US. Allow a minimum of 90 days after application submittal for approval.

## Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	<15 mK @ +30°C (+86°F)
Field of view (FOV)	14.5° × 10.8°
Minimum focus distance	0.5 m (1.64 ft.)
Focal length	38 mm (1.49 in.)
Lens identification	Automatic
F-number	1.5
Focus	Automatic (one touch) or manual (electric or on the lens)

P/N: 44601-0101

© 2015, FLIR Systems, Inc.  
#44601-0101; r. 24597; en-US

Imaging and optical data	
Zoom	1–8× continuous, digital zoom
Digital image enhancement	Noise reduction filter
Detector data	
Detector type	Focal plane array (FPA), cooled InSb
Spectral range	3.8–4.05 μm
Detector pitch	30 μm
Sensor cooling	Stirling Microcooler (FLIR MC-3)
Electronics and data rate	
Full frame rate	60 Hz
Image presentation	
Display	Built-in widescreen, 4.3 in. LCD, 800 × 480 pixels
Viewfinder	Built-in, tiltable OLED, 800 × 480 pixels
Automatic image adjustment	Continuous/manual; linear or histogram based
Manual image adjustment	Level/span
Image presentation modes	
Image modes	IR image, visual image
Measurement	
Temperature range	–20°C to +1500°C (–4°F to +2732°F)
Accuracy	±1°C (±1.8°F) for temperature range (0°C, to +100°C, +32°F to +212°F) or ±2% of reading for temperature range (>+100°C, >+212°F)
Measurement analysis	
Spotmeter	10
Area	5 boxes with max./min./average
Profile	1 live line (horizontal or vertical)
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Emissivity correction	Variable from 0.01 to 1.0 or selected from editable materials list
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
Measurement corrections	Reflected temperature, distance, atmospheric transmission, humidity, external optics
Set-up	
Menu commands	Level, span Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image
Color palettes	Iron, Gray, Rainbow, Arctic, Lava, Rainbow HC
Set-up commands	1 programmable button, local adaptation of units, language, date and time formats

**P/N: 44601-0101**

© 2015, FLIR Systems, Inc.  
#44601-0101; r. 24597; en-US

Storage of images	
Storage media	Removable SD or SDHC memory card , two card slots
Image storage capacity	> 1200 images (JPEG) with post process capability per GB on memory card
Image storage mode	IR/visual images Visual image can automatically be associated with corresponding IR image
Periodic image storage	Every 10 seconds up to 24 hours
File formats	Standard JPEG, 14 bit measurement data included
Geographic Information System	
GPS	Location data automatically added to every image from built-in GPS
Video recording in camera	
Radiometric IR video recording	15 Hz direct to memory card
Non-radiometric IR video recording	MPEG4 (up to 60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non-radiometric IR video.
Visual video recording	MPEG4 (25 minutes/clip) to memory card
Video streaming	
Non-radiometric IR video streaming	RTP/MPEG4
Digital camera	
Built-in digital camera	3.2 Mpixels, auto focus, and two video lamps
Laser pointer	
Laser	Activated by dedicated button
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)
USB	
USB	<ul style="list-style-type: none"> <li>USB-A: Connect external USB device</li> <li>USB Mini-B: Data transfer to and from PC</li> </ul>
USB, standard	USB Mini-B: 2.0 high speed
Composite video	
Video out	Digital video output (image)
Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	7.2 V
Battery capacity	4.4 Ah
Battery operating time	> 3 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 95% capacity, charging status indicated by LED's
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
DC operation	10.8 to 16 V DC, polarity protected (proprietary protected)
Power	8.5 W typically
Start-up time	Typically 7 min. @ 25°C (+77°F)

**P/N: 44601-0101**

© 2015, FLIR Systems, Inc.  
#44601-0101; r. 24597; en-US

Environmental data	
Operating temperature range	–20°C to +50°C (–4°F to +122°F)
Storage temperature range	–30°C to +60°C (–22°F to +140°F)
Humidity (operating and storage)	IEC 68-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) (2 cycles)
Directives	<ul style="list-style-type: none"> <li>• 73/23EEC</li> <li>• 2004/108/EC</li> <li>• 2002/95/EC</li> <li>• 2002/96/EC</li> </ul>
EMC	<ul style="list-style-type: none"> <li>• EN61000-6-4 (Emission)</li> <li>• EN61000-6-2 (Immunity)</li> <li>• FCC 47 CFR Part 15 class A (Emission)</li> <li>• EN 61 000-4-8, L5</li> </ul>
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	Power supply: EN/UL/IEC 60950-1

Physical data	
Camera weight, excl. lens and battery	1.94 kg (4.27 lb.)
Camera weight, incl. lens and excl. battery	2.24 kg (4.94 lb.)
Camera weight, incl. lens and battery	2.48 kg (5.47 lb.)
Battery weight	0.24 kg (0.52 lb.)
Heat shield weight	0.50 kg (1.09 lb.)
Camera size, excl. lens (L × W × H)	284 × 169 × 161 mm (11.2 × 6.7 × 6.3 in.)
Cameras size, incl. lens (L × W × H)	305 × 169 × 161 mm (12.0 × 6.7 × 6.3 in.)
Cameras size, incl. heat shield (L × W × H)	320 × 243 × 195 mm (12.6 × 9.6 × 7.7 in.)
Battery size (L × W × H)	141 × 47 × 28 mm (5.5 × 1.8 × 1.1 in.)
Battery charger size (L × W × H)	158 × 122 × 25 mm (6.2 × 4.8 × 1.0 in.)
Tripod mounting	UNC ¼"-20
Housing material	Aluminum, magnesium
Grip material	TPE thermoplastic elastomers

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Battery charger</li> <li>• Battery, 2 ea.</li> <li>• FLIR Tools download card</li> <li>• Hard transport case</li> <li>• HDMI-DVI cable</li> <li>• HDMI-HDMI cable</li> <li>• Heat shield</li> <li>• Lens cap (2 ea.)</li> <li>• Lens cap (mounted on lens)</li> <li>• Memory card</li> <li>• Power supply, incl. multi-plugs</li> <li>• Printed documentation</li> <li>• Shoulder strap</li> <li>• USB cable</li> <li>• User documentation CD-ROM</li> <li>• Wi-Fi USB micro adapter (depending on CE and FCC regulations regarding wireless equipment for your country)</li> </ul>
Packaging, weight	
Packaging, size	400 × 190 × 510 mm (15.7 × 7.5 × 20.1 in.)

**Supplies & accessories:**

- T197387; IR lens, 24° with case for GF300, GF309, GF320



**P/N: 44601-0101**

© 2015, FLIR Systems, Inc.  
#44601-0101; r. 24597; en-US

- T197388; IR lens, 6° with case for GF300, GF309, GF320, GF346.
- T197385; IR lens, 14.5° with case for GF300, GF309, GF320
- T198361; Furnace IR lens extender, 14.5° with case for GF309
- T198360; Furnace IR lens extender, 24° with case for GF309
- T197692; Battery charger, incl. power supply with multi plugs
- T910814; Power supply, incl. multi plugs
- T198511; Li-Ion Battery pack 7.4V 33Wh
- T911230ACC; Memory card SDHC 4 GB
- T910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910815ACC; HDMI to HDMI cable 1.5 m
- T910816ACC; HDMI to DVI cable 1.5 m
- T197555; Hard transport case for FLIR GF3xx-Series
- T951387; Wi-Fi USB micro adapter
- T197482; Heat Shield for FLIR GF309
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

**P/N: 44602-0101**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 44602-0101  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR GF309 is an infrared camera for furnace and high temperature inspection (e.g., of industrial furnaces, chemical heaters, and coal-fired boilers), without the need to shut down the operation. The portable camera also greatly improves operator safety, by measuring through flames at a safe distance, for all types of furnaces. A good knowledge of the furnace condition can avert failures and unscheduled shutdowns

Industrial furnaces, heaters, and boilers are found in the chemical, petrochemical, and utility industries.

## Benefits:

- **Improved efficiency:** The FLIR GF309 reduces inspection time by measuring the temperature through flames without the need to interrupt the industrial process or await scheduled service shutdowns. A furnace camera can help you to determine how to run a furnace/boiler efficiently to give the best fuel economy and maximize production output and quality. As the FLIR GF309 has a wide temperature range, high-accuracy electrical and mechanical inspections can be performed, which makes the camera even more useful for predictive maintenance.
- **The wireless connectivity of the camera** allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera—a useful function if regulations require a second person to accompany the furnace inspector or thermal images needs to be sent quickly for a second opinion.
- **Increased worker safety:** High-temperature measurement can be performed through flames in a non-contact mode, and from a safe distance. Custom-built, the FLIR GF309 also features a detachable heat-shield designed to reflect heat away from the camera and the camera operator, providing increased protection. The camera is ergonomically designed, with a bright LCD and tiltable viewfinder, which facilitates its use over a full working day.
- **Increased furnace safety:** Good knowledge of furnace/boiler condition and operating parameters can provide the information needed to avert catastrophic failures and prevent unscheduled shutdowns.

## Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	<15 mK @ +30°C (+86°F)
Field of view (FOV)	14.5° × 10.8°
Minimum focus distance	0.5 m (1.64 ft.)
Focal length	38 mm (1.49 in.)
Lens identification	Automatic
F-number	1.5
Focus	Automatic (one touch) or manual (electric or on the lens)
Zoom	1–8× continuous, digital zoom
Digital image enhancement	Noise reduction filter

## Detector data

Detector type	Focal plane array (FPA), cooled InSb
Spectral range	3.8–4.05 µm

**P/N: 44602-0101**

© 2015, FLIR Systems, Inc.  
#44602-0101; r. 24597; en-US

<b>Detector data</b>	
Detector pitch	30 µm
Sensor cooling	Stirling Microcooler (FLIR MC-3)
<b>Electronics and data rate</b>	
Full frame rate	60 Hz
<b>Image presentation</b>	
Display	Built-in widescreen, 4.3 in. LCD, 800 × 480 pixels
Viewfinder	Built-in, tiltable OLED, 800 × 480 pixels
Automatic image adjustment	Continuous/manual; linear or histogram based
Manual image adjustment	Level/span
<b>Image presentation modes</b>	
Image modes	IR image, visual image
<b>Measurement</b>	
Temperature range	−20°C to +1500°C (−4°F to +2732°F)
Accuracy	±1°C (±1.8°F) for temperature range (0°C, to +100°C, +32°F to +212°F) or ±2% of reading for temperature range (>+100°C, >+212°F)
<b>Measurement analysis</b>	
Spotmeter	10
Area	5 boxes with max./min./average
Profile	1 live line (horizontal or vertical)
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Emissivity correction	Variable from 0.01 to 1.0 or selected from editable materials list
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
Measurement corrections	Reflected temperature, distance, atmospheric transmission, humidity, external optics
<b>Set-up</b>	
Menu commands	Level, span Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image
Color palettes	Iron, Gray, Rainbow, Arctic, Lava, Rainbow HC
Set-up commands	1 programmable button, local adaptation of units, language, date and time formats
<b>Storage of images</b>	
Storage media	Removable SD or SDHC memory card , two card slots
Image storage capacity	> 1200 images (JPEG) with post process capability per GB on memory card
Image storage mode	IR/visual images Visual image can automatically be associated with corresponding IR image

P/N: 44602-0101

© 2015, FLIR Systems, Inc.  
#44602-0101; r. 24597; en-US

<b>Storage of images</b>	
Periodic image storage	Every 10 seconds up to 24 hours
File formats	Standard JPEG, 14 bit measurement data included
<b>Geographic Information System</b>	
GPS	Location data automatically added to every image from built-in GPS
<b>Video recording in camera</b>	
Radiometric IR video recording	15 Hz direct to memory card
Non-radiometric IR video recording	MPEG4 (up to 60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non-radiometric IR video.
Visual video recording	MPEG4 (25 minutes/clip) to memory card
<b>Video streaming</b>	
Non-radiometric IR video streaming	RTP/MPEG4
<b>Digital camera</b>	
Built-in digital camera	3.2 Mpixels, auto focus, and two video lamps
<b>Laser pointer</b>	
Laser	Activated by dedicated button
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)
<b>USB</b>	
USB	<ul style="list-style-type: none"> <li>USB-A: Connect external USB device</li> <li>USB Mini-B: Data transfer to and from PC</li> </ul>
USB, standard	USB Mini-B: 2.0 high speed
<b>Composite video</b>	
Video out	Digital video output (image)
<b>Power system</b>	
Battery type	Rechargeable Li ion battery
Battery voltage	7.2 V
Battery capacity	4.4 Ah
Battery operating time	> 3 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 95% capacity, charging status indicated by LED's
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
DC operation	10.8 to 16 V DC, polarity protected (proprietary protected)
Power	8.5 W typically
Start-up time	Typically 7 min. @ 25°C (+77°F)
<b>Environmental data</b>	
Operating temperature range	–20°C to +50°C (–4°F to +122°F)
Storage temperature range	–30°C to +60°C (–22°F to +140°F)
Humidity (operating and storage)	IEC 68-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) (2 cycles)

**P/N: 44602-0101**

© 2015, FLIR Systems, Inc.  
#44602-0101; r. 24597; en-US

Environmental data	
Directives	<ul style="list-style-type: none"> <li>• 73/23EEC</li> <li>• 2004/108/EC</li> <li>• 2002/95/EC</li> <li>• 2002/96/EC</li> </ul>
EMC	<ul style="list-style-type: none"> <li>• EN61000-6-4 (Emission)</li> <li>• EN61000-6-2 (Immunity)</li> <li>• FCC 47 CFR Part 15 class A (Emission)</li> <li>• EN 61 000-4-8, L5</li> </ul>
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	Power supply: EN/UL/IEC 60950-1
Physical data	
Camera weight, excl. lens and battery	1.94 kg (4.27 lb.)
Camera weight, incl. lens and excl. battery	2.24 kg (4.94 lb.)
Camera weight, incl. lens and battery	2.48 kg (5.47 lb.)
Battery weight	0.24 kg (0.52 lb.)
Heat shield weight	0.50 kg (1.09 lb.)
Camera size, excl. lens (L × W × H)	284 × 169 × 161 mm (11.2 × 6.7 × 6.3 in.)
Cameras size, incl. lens (L × W × H)	305 × 169 × 161 mm (12.0 × 6.7 × 6.3 in.)
Cameras size, incl. heat shield (L × W × H)	320 × 243 × 195 mm (12.6 × 9.6 × 7.7 in.)
Battery size (L × W × H)	141 × 47 × 28 mm (5.5 × 1.8 × 1.1 in.)
Battery charger size (L × W × H)	158 × 122 × 25 mm (6.2 × 4.8 × 1.0 in.)
Tripod mounting	UNC ¼"-20
Housing material	Aluminum, magnesium
Grip material	TPE thermoplastic elastomers
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Battery charger</li> <li>• Battery, 2 ea.</li> <li>• FLIR Tools download card</li> <li>• Hard transport case</li> <li>• HDMI-DVI cable</li> <li>• HDMI-HDMI cable</li> <li>• Heat shield</li> <li>• Lens cap (mounted on lens)</li> <li>• Memory card</li> <li>• Power supply, incl. multi-plugs</li> <li>• Printed documentation</li> <li>• Shoulder strap</li> <li>• USB cable</li> <li>• User documentation CD-ROM</li> <li>• Wi-Fi USB micro adapter (depending on CE and FCC regulations regarding wireless equipment for your country)</li> </ul>
Packaging, weight	
Packaging, size	400 × 190 × 510 mm (15.7 × 7.5 × 20.1 in.)

**Supplies & accessories:**

- T198361; Furnace IR lens extender, 14.5° with case for GF309
- T198360; Furnace IR lens extender, 24° with case for GF309
- T197692; Battery charger, incl. power supply with multi plugs
- T910814; Power supply, incl. multi plugs
- T198511; Li-Ion Battery pack 7.4V 33Wh
- T911230ACC; Memory card SDHC 4 GB

**P/N: 44602-0101**

© 2015, FLIR Systems, Inc.  
#44602-0101; r. 24597; en-US

- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910815ACC; HDMI to HDMI cable 1.5 m
- T910816ACC; HDMI to DVI cable 1.5 m
- T197555; Hard transport case for FLIR GF3xx-Series
- T951387; Wi-Fi USB micro adapter
- T197482; Heat Shield for FLIR GF309
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

**P/N: 44601-0102**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 44601-0102  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR GF309 is an infrared camera for furnace and high temperature inspection (e.g., of industrial furnaces, chemical heaters, and coal-fired boilers), without the need to shut down the operation. The portable camera also greatly improves operator safety, by measuring through flames at a safe distance, for all types of furnaces. A good knowledge of the furnace condition can avert failures and unscheduled shutdowns

Industrial furnaces, heaters, and boilers are found in the chemical, petrochemical, and utility industries.

## Benefits:

- **Improved efficiency:** The FLIR GF309 reduces inspection time by measuring the temperature through flames without the need to interrupt the industrial process or await scheduled service shutdowns. A furnace camera can help you to determine how to run a furnace/boiler efficiently to give the best fuel economy and maximize production output and quality. As the FLIR GF309 has a wide temperature range, high-accuracy electrical and mechanical inspections can be performed, which makes the camera even more useful for predictive maintenance.
- **The wireless connectivity of the camera** allows you to connect to smart phones or tablet PCs for the wireless transfer of images or the remote control of the camera—a useful function if regulations require a second person to accompany the furnace inspector or thermal images needs to be sent quickly for a second opinion.
- **Increased worker safety:** High-temperature measurement can be performed through flames in a non-contact mode, and from a safe distance. Custom-built, the FLIR GF309 also features a detachable heat-shield designed to reflect heat away from the camera and the camera operator, providing increased protection. The camera is ergonomically designed with a bright LCD and tiltable viewfinder, which facilitates its use over a full working day.
- **Increased furnace safety:** Good knowledge of furnace/boiler condition and operating parameters can provide the information needed to avert catastrophic failures and prevent unscheduled shutdowns.

## Licensing and classification

### License information

Interchangeable lens version of the FLIR GF3XX series requires US Department of State License and will be subject to limitations on resale, except inside US. Allow a minimum of 90 days after application submittal for approval.

## Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	<15 mK @ +30°C (+86°F)
Field of view (FOV)	24° × 18°
Minimum focus distance	0.3 m (1.0 ft.)
Focal length	23 mm (0.89 in.)
Lens identification	Automatic
F-number	1.5
Focus	Automatic (one touch) or manual (electric or on the lens)

P/N: 44601-0102

© 2015, FLIR Systems, Inc.  
#44601-0102; r. 24597; en-US

Imaging and optical data	
Zoom	1–8× continuous, digital zoom
Digital image enhancement	Noise reduction filter
Detector data	
Detector type	Focal plane array (FPA), cooled InSb
Spectral range	3.8–4.05 μm
Detector pitch	30 μm
Sensor cooling	Stirling Microcooler (FLIR MC-3)
Electronics and data rate	
Full frame rate	60 Hz
Image presentation	
Display	Built-in widescreen, 4.3 in. LCD, 800 × 480 pixels
Viewfinder	Built-in, tiltable OLED, 800 × 480 pixels
Automatic image adjustment	Continuous/manual; linear or histogram based
Manual image adjustment	Level/span
Image presentation modes	
Image modes	IR image, visual image
Measurement	
Temperature range	–20°C to +1500°C (–4°F to +2732°F)
Accuracy	±1°C (±1.8°F) for temperature range (0°C, to +100°C, +32°F to +212°F) or ±2% of reading for temperature range (>+100°C, >+212°F)
Measurement analysis	
Spotmeter	10
Area	5 boxes with max./min./average
Profile	1 live line (horizontal or vertical)
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Emissivity correction	Variable from 0.01 to 1.0 or selected from editable materials list
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
Measurement corrections	Reflected temperature, distance, atmospheric transmission, humidity, external optics
Set-up	
Menu commands	Level, span Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image
Color palettes	Iron, Gray, Rainbow, Arctic, Lava, Rainbow HC
Set-up commands	1 programmable button, local adaptation of units, language, date and time formats



**P/N: 44601-0102**

© 2015, FLIR Systems, Inc.  
#44601-0102; r. 24597; en-US

Storage of images	
Storage media	Removable SD or SDHC memory card , two card slots
Image storage capacity	> 1200 images (JPEG) with post process capability per GB on memory card
Image storage mode	IR/visual images Visual image can automatically be associated with corresponding IR image
Periodic image storage	Every 10 seconds up to 24 hours
File formats	Standard JPEG, 14 bit measurement data included
Geographic Information System	
GPS	Location data automatically added to every image from built-in GPS
Video recording in camera	
Radiometric IR video recording	15 Hz direct to memory card
Non-radiometric IR video recording	MPEG4 (up to 60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non-radiometric IR video.
Visual video recording	MPEG4 (25 minutes/clip) to memory card
Video streaming	
Non-radiometric IR video streaming	RTP/MPEG4
Digital camera	
Built-in digital camera	3.2 Mpixels, auto focus, and two video lamps
Laser pointer	
Laser	Activated by dedicated button
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)
USB	
USB	<ul style="list-style-type: none"> <li>USB-A: Connect external USB device</li> <li>USB Mini-B: Data transfer to and from PC</li> </ul>
USB, standard	USB Mini-B: 2.0 high speed
Composite video	
Video out	Digital video output (image)
Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	7.2 V
Battery capacity	4.4 Ah
Battery operating time	> 3 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 95% capacity, charging status indicated by LED's
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
DC operation	10.8 to 16 V DC, polarity protected (proprietary protected)
Power	8.5 W typically
Start-up time	Typically 7 min. @ 25°C (+77°F)

**P/N: 44601-0102**

© 2015, FLIR Systems, Inc.  
#44601-0102; r. 24597; en-US

Environmental data	
Operating temperature range	–20°C to +50°C (–4°F to +122°F)
Storage temperature range	–30°C to +60°C (–22°F to +140°F)
Humidity (operating and storage)	IEC 68-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) (2 cycles)
Directives	<ul style="list-style-type: none"> <li>• 73/23EEC</li> <li>• 2004/108/EC</li> <li>• 2002/95/EC</li> <li>• 2002/96/EC</li> </ul>
EMC	<ul style="list-style-type: none"> <li>• EN61000-6-4 (Emission)</li> <li>• EN61000-6-2 (Immunity)</li> <li>• FCC 47 CFR Part 15 class A (Emission)</li> <li>• EN 61 000-4-8, L5</li> </ul>
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	Power supply: EN/UL/IEC 60950-1

Physical data	
Camera weight, excl. lens and battery	1.94 kg (4.27 lb.)
Camera weight, incl. lens and excl. battery	2.24 kg (4.94 lb.)
Camera weight, incl. lens and battery	2.48 kg (5.47 lb.)
Battery weight	0.24 kg (0.52 lb.)
Heat shield weight	0.50 kg (1.09 lb.)
Camera size, excl. lens (L × W × H)	284 × 169 × 161 mm (11.2 × 6.7 × 6.3 in.)
Cameras size, incl. lens (L × W × H)	306 × 169 × 161 mm (12.0 × 6.7 × 6.3 in.)
Cameras size, incl. heat shield (L × W × H)	320 × 243 × 195 mm (12.6 × 9.6 × 7.7 in.)
Battery size (L × W × H)	141 × 47 × 28 mm (5.5 × 1.8 × 1.1 in.)
Battery charger size (L × W × H)	158 × 122 × 25 mm (6.2 × 4.8 × 1.0 in.)
Tripod mounting	UNC ¼"-20
Housing material	Aluminum, magnesium
Grip material	TPE thermoplastic elastomers

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Battery charger</li> <li>• Battery, 2 ea.</li> <li>• FLIR Tools download card</li> <li>• Hard transport case</li> <li>• HDMI-DVI cable</li> <li>• HDMI-HDMI cable</li> <li>• Heat shield</li> <li>• Lens cap (2 ea.)</li> <li>• Lens cap (mounted on lens)</li> <li>• Memory card</li> <li>• Power supply, incl. multi-plugs</li> <li>• Printed documentation</li> <li>• Shoulder strap</li> <li>• USB cable</li> <li>• User documentation CD-ROM</li> <li>• Wi-Fi USB micro adapter (depending on CE and FCC regulations regarding wireless equipment for your country)</li> </ul>
Packaging, weight	
Packaging, size	400 × 190 × 510 mm (15.7 × 7.5 × 20.1 in.)

**Supplies & accessories:**

- T197387; IR lens, 24° with case for GF300, GF309, GF320

**P/N: 44601-0102**

© 2015, FLIR Systems, Inc.  
#44601-0102; r. 24597; en-US

- T197388; IR lens, 6° with case for GF300, GF309, GF320, GF346.
- T197385; IR lens, 14.5° with case for GF300, GF309, GF320
- T198361; Furnace IR lens extender, 14.5° with case for GF309
- T198360; Furnace IR lens extender, 24° with case for GF309
- T197692; Battery charger, incl. power supply with multi plugs
- T910814; Power supply, incl. multi plugs
- T198511; Li-Ion Battery pack 7.4V 33Wh
- T911230ACC; Memory card SDHC 4 GB
- T910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910815ACC; HDMI to HDMI cable 1.5 m
- T910816ACC; HDMI to DVI cable 1.5 m
- T197555; Hard transport case for FLIR GF3xx-Series
- T951387; Wi-Fi USB micro adapter
- T197482; Heat Shield for FLIR GF309
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

**P/N: 44602-0102**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 44602-0102  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR GF309 is an infrared camera for furnace and high temperature inspection (e.g., of industrial furnaces, chemical heaters, and coal-fired boilers), without the need to shut down the operation. The portable camera also greatly improves operator safety, by measuring through flames at a safe distance, for all types of furnaces. A good knowledge of the furnace condition can avert failures and unscheduled shutdowns

Industrial furnaces, heaters, and boilers are found in the chemical, petrochemical, and utility industries.

## Benefits:

- **Improved efficiency:** The FLIR GF309 reduces inspection time by measuring the temperature through flames without the need to interrupt the industrial process or await scheduled service shutdowns. A furnace camera can help you to determine how to run a furnace/boiler efficiently to give the best fuel economy and maximize production output and quality. As the FLIR GF309 has a wide temperature range, high-accuracy electrical and mechanical inspections can be performed, which makes the camera even more useful for predictive maintenance.
- **The wireless connectivity of the camera** allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera—a useful function if regulations require a second person to accompany the furnace inspector or thermal images needs to be sent quickly for a second opinion.
- **Increased worker safety:** High-temperature measurement can be performed through flames in a non-contact mode, and from a safe distance. Custom-built, the FLIR GF309 also features a detachable heat-shield designed to reflect heat away from the camera and the camera operator, providing increased protection. The camera is ergonomically designed, with a bright LCD and tiltable viewfinder, which facilitates its use over a full working day.
- **Increased furnace safety:** Good knowledge of furnace/boiler condition and operating parameters can provide the information needed to avert catastrophic failures and prevent unscheduled shutdowns.

## Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	<15 mK @ +30°C (+86°F)
Field of view (FOV)	24° × 18°
Minimum focus distance	0.3 m (1.0 ft.)
Focal length	23 mm (0.89 in.)
Lens identification	Automatic
F-number	1.5
Focus	Automatic (one touch) or manual (electric or on the lens)
Zoom	1–8× continuous, digital zoom
Digital image enhancement	Noise reduction filter

## Detector data

Detector type	Focal plane array (FPA), cooled InSb
Spectral range	3.8–4.05 µm

**P/N: 44602-0102**

© 2015, FLIR Systems, Inc.  
#44602-0102; r. 24597; en-US

<b>Detector data</b>	
Detector pitch	30 µm
Sensor cooling	Stirling Microcooler (FLIR MC-3)
<b>Electronics and data rate</b>	
Full frame rate	60 Hz
<b>Image presentation</b>	
Display	Built-in widescreen, 4.3 in. LCD, 800 × 480 pixels
Viewfinder	Built-in, tiltable OLED, 800 × 480 pixels
Automatic image adjustment	Continuous/manual; linear or histogram based
Manual image adjustment	Level/span
<b>Image presentation modes</b>	
Image modes	IR image, visual image
<b>Measurement</b>	
Temperature range	−20°C to +1500°C (−4°F to +2732°F)
Accuracy	±1°C (±1.8°F) for temperature range (0°C, to +100°C, +32°F to +212°F) or ±2% of reading for temperature range (>+100°C, >+212°F)
<b>Measurement analysis</b>	
Spotmeter	10
Area	5 boxes with max./min./average
Profile	1 live line (horizontal or vertical)
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Emissivity correction	Variable from 0.01 to 1.0 or selected from editable materials list
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
Measurement corrections	Reflected temperature, distance, atmospheric transmission, humidity, external optics
<b>Set-up</b>	
Menu commands	Level, span Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image
Color palettes	Iron, Gray, Rainbow, Arctic, Lava, Rainbow HC
Set-up commands	1 programmable button, local adaptation of units, language, date and time formats
<b>Storage of images</b>	
Storage media	Removable SD or SDHC memory card , two card slots
Image storage capacity	> 1200 images (JPEG) with post process capability per GB on memory card
Image storage mode	IR/visual images Visual image can automatically be associated with corresponding IR image

**P/N: 44602-0102**

© 2015, FLIR Systems, Inc.  
#44602-0102; r. 24597; en-US

<b>Storage of images</b>	
Periodic image storage	Every 10 seconds up to 24 hours
File formats	Standard JPEG, 14 bit measurement data included
<b>Geographic Information System</b>	
GPS	Location data automatically added to every image from built-in GPS
<b>Video recording in camera</b>	
Radiometric IR video recording	15 Hz direct to memory card
Non-radiometric IR video recording	MPEG4 (up to 60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non-radiometric IR video.
Visual video recording	MPEG4 (25 minutes/clip) to memory card
<b>Video streaming</b>	
Non-radiometric IR video streaming	RTP/MPEG4
<b>Digital camera</b>	
Built-in digital camera	3.2 Mpixels, auto focus, and two video lamps
<b>Laser pointer</b>	
Laser	Activated by dedicated button
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)
<b>USB</b>	
USB	<ul style="list-style-type: none"> <li>USB-A: Connect external USB device</li> <li>USB Mini-B: Data transfer to and from PC</li> </ul>
USB, standard	USB Mini-B: 2.0 high speed
<b>Composite video</b>	
Video out	Digital video output (image)
<b>Power system</b>	
Battery type	Rechargeable Li ion battery
Battery voltage	7.2 V
Battery capacity	4.4 Ah
Battery operating time	> 3 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 95% capacity, charging status indicated by LED's
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
DC operation	10.8 to 16 V DC, polarity protected (proprietary protected)
Power	8.5 W typically
Start-up time	Typically 7 min. @ 25°C (+77°F)
<b>Environmental data</b>	
Operating temperature range	–20°C to +50°C (–4°F to +122°F)
Storage temperature range	–30°C to +60°C (–22°F to +140°F)
Humidity (operating and storage)	IEC 68-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) (2 cycles)

**P/N: 44602-0102**

© 2015, FLIR Systems, Inc.  
#44602-0102; r. 24597; en-US

Environmental data	
Directives	<ul style="list-style-type: none"> <li>73/23EEC</li> <li>2004/108/EC</li> <li>2002/95/EC</li> <li>2002/96/EC</li> </ul>
EMC	<ul style="list-style-type: none"> <li>EN61000-6-4 (Emission)</li> <li>EN61000-6-2 (Immunity)</li> <li>FCC 47 CFR Part 15 class A (Emission)</li> <li>EN 61 000-4-8, L5</li> </ul>
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	Power supply: EN/UL/IEC 60950-1
Physical data	
Camera weight, excl. lens and battery	1.94 kg (4.27 lb.)
Camera weight, incl. lens and excl. battery	2.24 kg (4.94 lb.)
Camera weight, incl. lens and battery	2.48 kg (5.47 lb.)
Battery weight	0.24 kg (0.52 lb.)
Heat shield weight	0.50 kg (1.09 lb.)
Camera size, excl. lens (L × W × H)	284 × 169 × 161 mm (11.2 × 6.7 × 6.3 in.)
Cameras size, incl. lens (L × W × H)	306 × 169 × 161 mm (12.0 × 6.7 × 6.3 in.)
Cameras size, incl. heat shield (L × W × H)	320 × 243 × 195 mm (12.6 × 9.6 × 7.7 in.)
Battery size (L × W × H)	141 × 47 × 28 mm (5.5 × 1.8 × 1.1 in.)
Battery charger size (L × W × H)	158 × 122 × 25 mm (6.2 × 4.8 × 1.0 in.)
Tripod mounting	UNC ¼"-20
Housing material	Aluminum, magnesium
Grip material	TPE thermoplastic elastomers
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Infrared camera with lens</li> <li>Battery charger</li> <li>Battery, 2 ea.</li> <li>FLIR Tools download card</li> <li>Hard transport case</li> <li>HDMI-DVI cable</li> <li>HDMI-HDMI cable</li> <li>Heat shield</li> <li>Lens cap (mounted on lens)</li> <li>Memory card</li> <li>Power supply, incl. multi-plugs</li> <li>Printed documentation</li> <li>Shoulder strap</li> <li>USB cable</li> <li>User documentation CD-ROM</li> <li>Wi-Fi USB micro adapter (depending on CE and FCC regulations regarding wireless equipment for your country)</li> </ul>
Packaging, weight	9.45 kg (20.8 lb.)
Packaging, size	400 × 190 × 510 mm (15.7 × 7.5 × 20.1 in.)

**Supplies & accessories:**

- T198361; Furnace IR lens extender, 14.5° with case for GF309
- T198360; Furnace IR lens extender, 24° with case for GF309
- T197692; Battery charger, incl. power supply with multi plugs
- T910814; Power supply, incl. multi plugs
- T198511; Li-Ion Battery pack 7.4V 33Wh
- T911230ACC; Memory card SDHC 4 GB

**P/N: 44602-0102**

© 2015, FLIR Systems, Inc.  
#44602-0102; r. 24597; en-US

- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910815ACC; HDMI to HDMI cable 1.5 m
- T910816ACC; HDMI to DVI cable 1.5 m
- T197555; Hard transport case for FLIR GF3xx-Series
- T951387; Wi-Fi USB micro adapter
- T197482; Heat Shield for FLIR GF309
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3



**P/N: 44401-0101**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 44401-0101  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR GF320 is an infrared camera for optical gas imaging (OGI) that visualizes and pinpoints leaks of methane and other volatile organic compounds (VOCs), without the need to shut down the operation. The portable camera also greatly improves operator safety, by detecting emissions at a safe distance, and helps to protect the environment by tracing leaks of environmentally harmful gases.

The FLIR GF320 is used in industrial settings such as oil refineries, natural gas processing plants, offshore platforms, chemical/petrochemical industries, and biogas and power generation plants.

## Benefits:

- Improved efficiency: The FLIR GF320 reduces revenue loss by pinpointing even small gas leaks quickly and efficiently, and from a distance. It also reduces the inspection time by allowing a broad area to be scanned rapidly and without the need to interrupt the industrial process. The wireless connectivity of the camera allows you to connect to smart phones or tablets for the wireless transfer of images or remote control of the camera. The FLIR GF320 is also used for temperature measurement, which makes it even more useful for predictive maintenance.
- Increased worker safety: OGI allows gas leaks to be detected in a non-contact mode and from a safe distance. This reduces the risk of the user being exposed to invisible and potentially harmful or explosive chemicals. With a FLIR GF320 gas imaging camera it is easy to scan areas of interest that are difficult to reach with conventional methods. The camera is ergonomically designed, with a bright LCD and tiltable viewfinder, which facilitates its use over a full working day.
- Protecting the environment: Several VOCs are dangerous to human health or cause harm to the environment, and are usually governed by regulations. Even small leaks can be detected and documented using the FLIR GF320 camera.

Detects the following gases: benzene, ethanol, ethylbenzene, heptane, hexane, isoprene, methanol, MEK, MIBK, octane, pentane, 1-pentene, toluene, xylene, butane, ethane, methane, propane, ethylene, propylene.

## Licensing and classification

License information	Interchangeable lens version of the FLIR GF3XX series requires US Department of State License and will be subject to limitations on resale, except inside US. Allow a minimum of 90 days after application submittal for approval.
---------------------	--

## Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	<15 mK @ +30°C (+86°F)
Field of view (FOV)	14.5° × 10.8°
Minimum focus distance	0.5 m (1.64 ft.)
Focal length	38 mm (1.49 in.)
Lens identification	Automatic
F-number	1.5
Focus	Automatic (one touch) or manual (electric or on the lens)
Zoom	1–8× continuous, digital zoom
Digital image enhancement	Noise reduction filter, high sensitivity mode (HSM)

**P/N: 44401-0101**

© 2015, FLIR Systems, Inc.  
#44401-0101; r. 24597; en-US

Detector data	
Detector type	Focal plane array (FPA), cooled InSb
Spectral range	3.2–3.4 $\mu\text{m}$
Detector pitch	30 $\mu\text{m}$
Sensor cooling	Stirling Microcooler (FLIR MC-3)
Detects following gases	Benzene, Ethanol, Ethylbenzene, Heptane, Hexane, Isoprene, Methanol, MEK, MIBK, Octane, Pentane, 1-Pentene, Toluene, Xylene, Butane, Ethane, Methane, Propane, Ethylene, Propylene
Electronics and data rate	
Full frame rate	60 Hz
Image presentation	
Display	Built-in widescreen, 4.3 in. LCD, 800 × 480 pixels
Viewfinder	Built-in, tiltable OLED, 800 × 480 pixels
Automatic image adjustment	Continuous/manual; linear or histogram based
Manual image adjustment	Level/span
Image presentation modes	
Image modes	IR image, visual image, high sensitivity mode (HSM)
Measurement	
Temperature range	–20°C to +350°C (–4°F to +662°F)
Accuracy	±1°C (±1.8°F) for temperature range (0°C, to +100°C, +32°F to +212°F) or ±2% of reading for temperature range (>+100°C, >+212°F)
Measurement analysis	
Spotmeter	10
Area	5 boxes with max./min./average
Profile	1 live line (horizontal or vertical)
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Emissivity correction	Variable from 0.01 to 1.0 or selected from editable materials list
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
Measurement corrections	Reflected temperature, distance, atmospheric transmission, humidity, external optics
Set-up	
Menu commands	Level, span Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image
Color palettes	Iron, Gray, Rainbow, Arctic, Lava, Rainbow HC
Set-up commands	1 programmable button, overlay recording mode, local adaptation of units, language, date and time formats

**P/N: 44401-0101**

© 2015, FLIR Systems, Inc.  
#44401-0101; r. 24597; en-US

Storage of images	
Storage media	Removable SD or SDHC memory card , two card slots
Image storage capacity	> 1200 images (JPEG) with post process capability per GB on memory card
Image storage mode	IR/visual images Visual image can automatically be associated with corresponding IR image
Periodic image storage	Every 10 seconds up to 24 hours
File formats	Standard JPEG, 14 bit measurement data included
Geographic Information System	
GPS	Location data automatically added to every image from built-in GPS
Video recording in camera	
Non-radiometric IR video recording	MPEG4 (up to 60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non-radiometric IR video.
Visual video recording	MPEG4 (25 minutes/clip) to memory card
Video streaming	
Non-radiometric IR video streaming	RTP/MPEG4
Digital camera	
Built-in digital camera	3.2 Mpixels, auto focus, and two video lamps
Laser pointer	
Laser	Activated by dedicated button
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)
USB	
USB	<ul style="list-style-type: none"> <li>USB-A: Connect external USB device</li> <li>USB Mini-B: Data transfer to and from PC</li> </ul>
USB, standard	USB Mini-B: 2.0 high speed
Composite video	
Video out	Digital video output (image)
Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	7.2 V
Battery capacity	4.4 Ah
Battery operating time	> 3 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 95% capacity, charging status indicated by LED's
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
DC operation	10.8 to 16 V DC, polarity protected (proprietary protected)
Power	8.5 W typically
Start-up time	Typically 7 min. @ 25°C (+77°F)

**P/N: 44401-0101**

© 2015, FLIR Systems, Inc.  
#44401-0101; r. 24597; en-US

Environmental data	
Operating temperature range	–20°C to +50°C (–4°F to +122°F)
Storage temperature range	–30°C to +60°C (–22°F to +140°F)
Humidity (operating and storage)	IEC 68-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) (2 cycles)
Directives	<ul style="list-style-type: none"> <li>• 73/23EEC</li> <li>• 2004/108/EC</li> <li>• 2002/95/EC</li> <li>• 2002/96/EC</li> </ul>
EMC	<ul style="list-style-type: none"> <li>• EN61000-6-4 (Emission)</li> <li>• EN61000-6-2 (Immunity)</li> <li>• FCC 47 CFR Part 15 class A (Emission)</li> <li>• EN 61 000-4-8, L5</li> </ul>
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	Power supply: EN/UL/IEC 60950-1

Physical data	
Camera weight, excl. lens and battery	1.94 kg (4.27 lb.)
Camera weight, incl. lens and excl. battery	2.24 kg (4.94 lb.)
Camera weight, incl. lens and battery	2.48 kg (5.47 lb.)
Battery weight	0.24 kg (0.52 lb.)
Camera size, excl. lens (L × W × H)	284 × 169 × 161 mm (11.2 × 6.7 × 6.3 in.)
Cameras size, incl. lens (L × W × H)	305 × 169 × 161 mm (12.0 × 6.7 × 6.3 in.)
Battery size (L × W × H)	141 × 47 × 28 mm (5.5 × 1.8 × 1.1 in.)
Battery charger size (L × W × H)	158 × 122 × 25 mm (6.2 × 4.8 × 1.0 in.)
Tripod mounting	UNC ¼"-20
Housing material	Aluminum, magnesium
Grip material	TPE thermoplastic elastomers

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Battery charger</li> <li>• Battery, 2 ea.</li> <li>• FLIR Tools download card</li> <li>• FLIR VideoReport PC software CD-ROM</li> <li>• Hard transport case</li> <li>• HDMI-DVI cable</li> <li>• HDMI-HDMI cable</li> <li>• Lens cap (2 ea.)</li> <li>• Lens cap (mounted on lens)</li> <li>• Memory card</li> <li>• Power supply, incl. multi-plugs</li> <li>• Printed documentation</li> <li>• Shoulder strap</li> <li>• USB cable</li> <li>• User documentation CD-ROM</li> <li>• Wi-Fi USB micro adapter (depending on CE and FCC regulations regarding wireless equipment for your country)</li> </ul>
Packaging, weight	
Packaging, size	400 × 190 × 510 mm (15.7 × 7.5 × 20.1 in.)

**Supplies & accessories:**

- T197387; IR lens, 24° with case for GF300, GF309, GF320
- T197388; IR lens, 6° with case for GF300, GF309, GF320, GF346.
- T197385; IR lens, 14.5° with case for GF300, GF309, GF320

**P/N: 44401-0101**

© 2015, FLIR Systems, Inc.  
#44401-0101; r. 24597; en-US

- T197692; Battery charger, incl. power supply with multi plugs
- T910814; Power supply, incl. multi plugs
- T198511; Li-Ion Battery pack 7.4V 33Wh
- T911230ACC; Memory card SDHC 4 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910815ACC; HDMI to HDMI cable 1.5 m
- T910816ACC; HDMI to DVI cable 1.5 m
- T197555; Hard transport case for FLIR GF3xx-Series
- T951387; Wi-Fi USB micro adapter
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- T198585; FLIR VideoReport
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

**P/N: 44402-0101**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 44402-0101  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR GF320 is an infrared camera for optical gas imaging (OGI) that visualizes and pinpoints leaks of methane and other volatile organic compounds (VOCs), without the need to shut down the operation. The portable camera also greatly improves operator safety, by detecting emissions at a safe distance, and helps to protect the environment by tracing leaks of environmentally harmful gases.

The FLIR GF320 is used in industrial settings such as oil refineries, natural gas processing plants, offshore platforms, chemical/petrochemical industries, and biogas and power generation plants.

## Benefits:

- **Improved efficiency:** The FLIR GF320 reduces revenue loss by pinpointing even small gas leaks quickly and efficiently, and from a distance. It also reduces the inspection time by allowing a broad area to be scanned rapidly and without the need to interrupt the industrial process. The wireless connectivity of the camera allows you to connect to smart phones or tablets for the wireless transfer of images or remote control of the camera. The FLIR GF320 is also used for temperature measurement, which makes it even more useful for predictive maintenance.
- **Increased worker safety:** OGI allows gas leaks to be detected in a non-contact mode and from a safe distance. This reduces the risk of the user being exposed to invisible and potentially harmful or explosive chemicals. With a FLIR GF320 gas imaging camera it is easy to scan areas of interest that are difficult to reach with conventional methods. The camera is ergonomically designed, with a bright LCD and tiltable viewfinder, which facilitates its use over a full working day.
- **Protecting the environment:** Several VOCs are dangerous to human health or cause harm to the environment, and are usually governed by regulations. Even small leaks can be detected and documented using the FLIR GF320 camera.

Detects the following gases: benzene, ethanol, ethylbenzene, heptane, hexane, isoprene, methanol, MEK, MIBK, octane, pentane, 1-pentene, toluene, xylene, butane, ethane, methane, propane, ethylene, propylene.

## Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	<15 mK @ +30°C (+86°F)
Field of view (FOV)	14.5° × 10.8°
Minimum focus distance	0.5 m (1.64 ft.)
Focal length	38 mm (1.49 in.)
Lens identification	Automatic
F-number	1.5
Focus	Automatic (one touch) or manual (electric or on the lens)
Zoom	1–8× continuous, digital zoom
Digital image enhancement	Noise reduction filter, high sensitivity mode (HSM)

## Detector data

Detector type	Focal plane array (FPA), cooled InSb
Spectral range	3.2–3.4 μm
Detector pitch	30 μm

P/N: 44402-0101

© 2015, FLIR Systems, Inc.  
#44402-0101; r. 24597; en-US

Detector data	
Sensor cooling	Stirling Microcooler (FLIR MC-3)
Detects following gases	Benzene, Ethanol, Ethylbenzene, Heptane, Hexane, Isoprene, Methanol, MEK, MIBK, Octane, Pentane, 1-Pentene, Toluene, Xylene, Butane, Ethane, Methane, Propane, Ethylene, Propylene
Electronics and data rate	
Full frame rate	60 Hz
Image presentation	
Display	Built-in widescreen, 4.3 in. LCD, 800 × 480 pixels
Viewfinder	Built-in, tiltable OLED, 800 × 480 pixels
Automatic image adjustment	Continuous/manual; linear or histogram based
Manual image adjustment	Level/span
Image presentation modes	
Image modes	IR image, visual image, high sensitivity mode (HSM)
Measurement	
Temperature range	−20°C to +350°C (−4°F to +662°F)
Accuracy	±1°C (±1.8°F) for temperature range (0°C, to +100°C, +32°F to +212°F) or ±2% of reading for temperature range (>+100°C, >+212°F)
Measurement analysis	
Spotmeter	10
Area	5 boxes with max./min./average
Profile	1 live line (horizontal or vertical)
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Emissivity correction	Variable from 0.01 to 1.0 or selected from editable materials list
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
Measurement corrections	Reflected temperature, distance, atmospheric transmission, humidity, external optics
Set-up	
Menu commands	Level, span Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image
Color palettes	Iron, Gray, Rainbow, Arctic, Lava, Rainbow HC
Set-up commands	1 programmable button, overlay recording mode, local adaptation of units, language, date and time formats
Storage of images	
Storage media	Removable SD or SDHC memory card , two card slots
Image storage capacity	> 1200 images (JPEG) with post process capability per GB on memory card

P/N: 44402-0101

© 2015, FLIR Systems, Inc.  
#44402-0101; r. 24597; en-US

Storage of images	
Image storage mode	IR/visual images Visual image can automatically be associated with corresponding IR image
Periodic image storage	Every 10 seconds up to 24 hours
File formats	Standard JPEG, 14 bit measurement data included
Geographic Information System	
GPS	Location data automatically added to every image from built-in GPS
Video recording in camera	
Non-radiometric IR video recording	MPEG4 (up to 60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non-radiometric IR video.
Visual video recording	MPEG4 (25 minutes/clip) to memory card
Video streaming	
Non-radiometric IR video streaming	RTP/MPEG4
Digital camera	
Built-in digital camera	3.2 Mpixels, auto focus, and two video lamps
Laser pointer	
Laser	Activated by dedicated button
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)
USB	
USB	<ul style="list-style-type: none"> <li>USB-A: Connect external USB device</li> <li>USB Mini-B: Data transfer to and from PC</li> </ul>
USB, standard	USB Mini-B: 2.0 high speed
Composite video	
Video out	Digital video output (image)
Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	7.2 V
Battery capacity	4.4 Ah
Battery operating time	> 3 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 95% capacity, charging status indicated by LED's
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
DC operation	10.8 to 16 V DC, polarity protected (proprietary protected)
Power	8.5 W typically
Start-up time	Typically 7 min. @ 25°C (+77°F)
Environmental data	
Operating temperature range	–20°C to +50°C (–4°F to +122°F)
Storage temperature range	–30°C to +60°C (–22°F to +140°F)



**P/N: 44402-0101**

© 2015, FLIR Systems, Inc.  
#44402-0101; r. 24597; en-US

<b>Environmental data</b>	
Humidity (operating and storage)	IEC 68-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) (2 cycles)
Directives	<ul style="list-style-type: none"> <li>• 73/23EEC</li> <li>• 2004/108/EC</li> <li>• 2002/95/EC</li> <li>• 2002/96/EC</li> </ul>
EMC	<ul style="list-style-type: none"> <li>• EN61000-6-4 (Emission)</li> <li>• EN61000-6-2 (Immunity)</li> <li>• FCC 47 CFR Part 15 class A (Emission)</li> <li>• EN 61 000-4-8, L5</li> </ul>
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	Power supply: EN/UL/IEC 60950-1

<b>Physical data</b>	
Camera weight, excl. lens and battery	1.94 kg (4.27 lb.)
Camera weight, incl. lens and excl. battery	2.24 kg (4.94 lb.)
Camera weight, incl. lens and battery	2.48 kg (5.47 lb.)
Battery weight	0.24 kg (0.52 lb.)
Camera size, excl. lens (L × W × H)	284 × 169 × 161 mm (11.2 × 6.7 × 6.3 in.)
Cameras size, incl. lens (L × W × H)	305 × 169 × 161 mm (12.0 × 6.7 × 6.3 in.)
Battery size (L × W × H)	141 × 47 × 28 mm (5.5 × 1.8 × 1.1 in.)
Battery charger size (L × W × H)	158 × 122 × 25 mm (6.2 × 4.8 × 1.0 in.)
Tripod mounting	UNC ¼"-20
Housing material	Aluminum, magnesium
Grip material	TPE thermoplastic elastomers

<b>Shipping information</b>	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Battery charger</li> <li>• Battery, 2 ea.</li> <li>• FLIR Tools download card</li> <li>• FLIR VideoReport PC software CD-ROM</li> <li>• Hard transport case</li> <li>• HDMI-DVI cable</li> <li>• HDMI-HDMI cable</li> <li>• Lens cap (mounted on lens)</li> <li>• Memory card</li> <li>• Power supply, incl. multi-plugs</li> <li>• Printed documentation</li> <li>• Shoulder strap</li> <li>• USB cable</li> <li>• User documentation CD-ROM</li> <li>• Wi-Fi USB micro adapter (depending on CE and FCC regulations regarding wireless equipment for your country)</li> </ul>
Packaging, weight	
Packaging, size	400 × 190 × 510 mm (15.7 × 7.5 × 20.1 in.)

**Supplies & accessories:**

- T197692; Battery charger, incl. power supply with multi plugs
- T910814; Power supply, incl. multi plugs
- T198511; Li-Ion Battery pack 7.4V 33Wh
- T911230ACC; Memory card SDHC 4 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910815ACC; HDMI to HDMI cable 1.5 m

---

**P/N: 44402-0101**

© 2015, FLIR Systems, Inc.  
#44402-0101; r. 24597; en-US

- T910816ACC; HDMI to DVI cable 1.5 m
- T197555; Hard transport case for FLIR GF3xx-Series
- T951387; Wi-Fi USB micro adapter
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- T198585; FLIR VideoReport
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

**P/N: 44401-0102**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 44401-0102  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR GF320 is an infrared camera for optical gas imaging (OGI) that visualizes and pinpoints leaks of methane and other volatile organic compounds (VOCs), without the need to shut down the operation. The portable camera also greatly improves operator safety, by detecting emissions at a safe distance, and helps to protect the environment by tracing leaks of environmentally harmful gases.

The FLIR GF320 is used in industrial settings such as oil refineries, natural gas processing plants, offshore platforms, chemical/petrochemical industries, and biogas and power generation plants.

## Benefits:

- Improved efficiency: The FLIR GF320 reduces revenue loss by pinpointing even small gas leaks quickly and efficiently, and from a distance. It also reduces the inspection time by allowing a broad area to be scanned rapidly and without the need to interrupt the industrial process. The wireless connectivity of the camera allows you to connect to smart phones or tablets for the wireless transfer of images or remote control of the camera. The FLIR GF320 is also used for temperature measurement, which makes it even more useful for predictive maintenance.
- Increased worker safety: OGI allows gas leaks to be detected in a non-contact mode and from a safe distance. This reduces the risk of the user being exposed to invisible and potentially harmful or explosive chemicals. With a FLIR GF320 gas imaging camera it is easy to scan areas of interest that are difficult to reach with conventional methods. The camera is ergonomically designed, with a bright LCD and tiltable viewfinder, which facilitates its use over a full working day.
- Protecting the environment: Several VOCs are dangerous to human health or cause harm to the environment, and are usually governed by regulations. Even small leaks can be detected and documented using the FLIR GF320 camera.

Detects the following gases: benzene, ethanol, ethylbenzene, heptane, hexane, isoprene, methanol, MEK, MIBK, octane, pentane, 1-pentene, toluene, xylene, butane, ethane, methane, propane, ethylene, propylene.

## Licensing and classification

License information	Interchangeable lens version of the FLIR GF3XX series requires US Department of State License and will be subject to limitations on resale, except inside US. Allow a minimum of 90 days after application submittal for approval.
---------------------	--

## Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	<15 mK @ +30°C (+86°F)
Field of view (FOV)	24° × 18°
Minimum focus distance	0.3 m (1.0 ft.)
Focal length	23 mm (0.89 in.)
Lens identification	Automatic
F-number	1.5
Focus	Automatic (one touch) or manual (electric or on the lens)
Zoom	1–8× continuous, digital zoom
Digital image enhancement	Noise reduction filter, high sensitivity mode (HSM)

**P/N: 44401-0102**

© 2015, FLIR Systems, Inc.  
#44401-0102; r. 24597; en-US

Detector data	
Detector type	Focal plane array (FPA), cooled InSb
Spectral range	3.2–3.4 $\mu\text{m}$
Detector pitch	30 $\mu\text{m}$
Sensor cooling	Stirling Microcooler (FLIR MC-3)
Detects following gases	Benzene, Ethanol, Ethylbenzene, Heptane, Hexane, Isoprene, Methanol, MEK, MIBK, Octane, Pentane, 1-Pentene, Toluene, Xylene, Butane, Ethane, Methane, Propane, Ethylene, Propylene
Electronics and data rate	
Full frame rate	60 Hz
Image presentation	
Display	Built-in widescreen, 4.3 in. LCD, 800 × 480 pixels
Viewfinder	Built-in, tiltable OLED, 800 × 480 pixels
Automatic image adjustment	Continuous/manual; linear or histogram based
Manual image adjustment	Level/span
Image presentation modes	
Image modes	IR image, visual image, high sensitivity mode (HSM)
Measurement	
Temperature range	–20°C to +350°C (–4°F to +662°F)
Accuracy	$\pm 1^\circ\text{C}$ ( $\pm 1.8^\circ\text{F}$ ) for temperature range (0°C, to +100°C, +32°F to +212°F) or $\pm 2\%$ of reading for temperature range (>+100°C, >+212°F)
Measurement analysis	
Spotmeter	10
Area	5 boxes with max./min./average
Profile	1 live line (horizontal or vertical)
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Emissivity correction	Variable from 0.01 to 1.0 or selected from editable materials list
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
Measurement corrections	Reflected temperature, distance, atmospheric transmission, humidity, external optics
Set-up	
Menu commands	Level, span Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image
Color palettes	Iron, Gray, Rainbow, Arctic, Lava, Rainbow HC
Set-up commands	1 programmable button, overlay recording mode, local adaptation of units, language, date and time formats

P/N: 44401-0102

© 2015, FLIR Systems, Inc.  
#44401-0102; r. 24597; en-US

Storage of images	
Storage media	Removable SD or SDHC memory card , two card slots
Image storage capacity	> 1200 images (JPEG) with post process capability per GB on memory card
Image storage mode	IR/visual images Visual image can automatically be associated with corresponding IR image
Periodic image storage	Every 10 seconds up to 24 hours
File formats	Standard JPEG, 14 bit measurement data included
Geographic Information System	
GPS	Location data automatically added to every image from built-in GPS
Video recording in camera	
Non-radiometric IR video recording	MPEG4 (up to 60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non-radiometric IR video.
Visual video recording	MPEG4 (25 minutes/clip) to memory card
Video streaming	
Non-radiometric IR video streaming	RTP/MPEG4
Digital camera	
Built-in digital camera	3.2 Mpixels, auto focus, and two video lamps
Laser pointer	
Laser	Activated by dedicated button
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)
USB	
USB	<ul style="list-style-type: none"> <li>USB-A: Connect external USB device</li> <li>USB Mini-B: Data transfer to and from PC</li> </ul>
USB, standard	USB Mini-B: 2.0 high speed
Composite video	
Video out	Digital video output (image)
Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	7.2 V
Battery capacity	4.4 Ah
Battery operating time	> 3 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 95% capacity, charging status indicated by LED's
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
DC operation	10.8 to 16 V DC, polarity protected (proprietary protected)
Power	8.5 W typically
Start-up time	Typically 7 min. @ 25°C (+77°F)

**P/N: 44401-0102**

© 2015, FLIR Systems, Inc.  
#44401-0102; r. 24597; en-US

Environmental data	
Operating temperature range	–20°C to +50°C (–4°F to +122°F)
Storage temperature range	–30°C to +60°C (–22°F to +140°F)
Humidity (operating and storage)	IEC 68-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) (2 cycles)
Directives	<ul style="list-style-type: none"> <li>• 73/23EEC</li> <li>• 2004/108/EC</li> <li>• 2002/95/EC</li> <li>• 2002/96/EC</li> </ul>
EMC	<ul style="list-style-type: none"> <li>• EN61000-6-4 (Emission)</li> <li>• EN61000-6-2 (Immunity)</li> <li>• FCC 47 CFR Part 15 class A (Emission)</li> <li>• EN 61 000-4-8, L5</li> </ul>
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	Power supply: EN/UL/IEC 60950-1

Physical data	
Camera weight, excl. lens and battery	1.94 kg (4.27 lb.)
Camera weight, incl. lens and excl. battery	2.24 kg (4.94 lb.)
Camera weight, incl. lens and battery	2.48 kg (5.47 lb.)
Battery weight	0.24 kg (0.52 lb.)
Camera size, excl. lens (L × W × H)	284 × 169 × 161 mm (11.2 × 6.7 × 6.3 in.)
Cameras size, incl. lens (L × W × H)	306 × 169 × 161 mm (12.0 × 6.7 × 6.3 in.)
Battery size (L × W × H)	141 × 47 × 28 mm (5.5 × 1.8 × 1.1 in.)
Battery charger size (L × W × H)	158 × 122 × 25 mm (6.2 × 4.8 × 1.0 in.)
Tripod mounting	UNC ¼"-20
Housing material	Aluminum, magnesium
Grip material	TPE thermoplastic elastomers

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Battery charger</li> <li>• Battery, 2 ea.</li> <li>• FLIR Tools download card</li> <li>• FLIR VideoReport PC software CD-ROM</li> <li>• Hard transport case</li> <li>• HDMI-DVI cable</li> <li>• HDMI-HDMI cable</li> <li>• Lens cap (2 ea.)</li> <li>• Lens cap (mounted on lens)</li> <li>• Memory card</li> <li>• Power supply, incl. multi-plugs</li> <li>• Printed documentation</li> <li>• Shoulder strap</li> <li>• USB cable</li> <li>• User documentation CD-ROM</li> <li>• Wi-Fi USB micro adapter (depending on CE and FCC regulations regarding wireless equipment for your country)</li> </ul>
Packaging, weight	
Packaging, size	400 × 190 × 510 mm (15.7 × 7.5 × 20.1 in.)

**Supplies & accessories:**

- T197387; IR lens, 24° with case for GF300, GF309, GF320
- T197388; IR lens, 6° with case for GF300, GF309, GF320, GF346.
- T197385; IR lens, 14.5° with case for GF300, GF309, GF320

**P/N: 44401-0102**

© 2015, FLIR Systems, Inc.  
#44401-0102; r. 24597; en-US

- T197692; Battery charger, incl. power supply with multi plugs
- T910814; Power supply, incl. multi plugs
- T198511; Li-Ion Battery pack 7.4V 33Wh
- T911230ACC; Memory card SDHC 4 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910815ACC; HDMI to HDMI cable 1.5 m
- T910816ACC; HDMI to DVI cable 1.5 m
- T197555; Hard transport case for FLIR GF3xx-Series
- T951387; Wi-Fi USB micro adapter
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- T198585; FLIR VideoReport
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

**P/N: 44402-0102**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 44402-0102  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR GF320 is an infrared camera for optical gas imaging (OGI) that visualizes and pinpoints leaks of methane and other volatile organic compounds (VOCs), without the need to shut down the operation. The portable camera also greatly improves operator safety, by detecting emissions at a safe distance, and helps to protect the environment by tracing leaks of environmentally harmful gases.

The FLIR GF320 is used in industrial settings such as oil refineries, natural gas processing plants, offshore platforms, chemical/petrochemical industries, and biogas and power generation plants.

## Benefits:

- Improved efficiency: The FLIR GF320 reduces revenue loss by pinpointing even small gas leaks quickly and efficiently, and from a distance. It also reduces the inspection time by allowing a broad area to be scanned rapidly and without the need to interrupt the industrial process. The wireless connectivity of the camera allows you to connect to smart phones or tablets for the wireless transfer of images or remote control of the camera. The FLIR GF320 is also used for temperature measurement, which makes it even more useful for predictive maintenance.
- Increased worker safety: OGI allows gas leaks to be detected in a non-contact mode and from a safe distance. This reduces the risk of the user being exposed to invisible and potentially harmful or explosive chemicals. With a FLIR GF320 gas imaging camera it is easy to scan areas of interest that are difficult to reach with conventional methods. The camera is ergonomically designed, with a bright LCD and tiltable viewfinder, which facilitates its use over a full working day.
- Protecting the environment: Several VOCs are dangerous to human health or cause harm to the environment, and are usually governed by regulations. Even small leaks can be detected and documented using the FLIR GF320 camera.

Detects the following gases: benzene, ethanol, ethylbenzene, heptane, hexane, isoprene, methanol, MEK, MIBK, octane, pentane, 1-pentene, toluene, xylene, butane, ethane, methane, propane, ethylene, propylene.

## Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	<15 mK @ +30°C (+86°F)
Field of view (FOV)	24° × 18°
Minimum focus distance	0.3 m (1.0 ft.)
Focal length	23 mm (0.89 in.)
Lens identification	Automatic
F-number	1.5
Focus	Automatic (one touch) or manual (electric or on the lens)
Zoom	1–8× continuous, digital zoom
Digital image enhancement	Noise reduction filter, high sensitivity mode (HSM)

## Detector data

Detector type	Focal plane array (FPA), cooled InSb
Spectral range	3.2–3.4 μm
Detector pitch	30 μm



**P/N: 44402-0102**

© 2015, FLIR Systems, Inc.  
#44402-0102; r. 24597; en-US

Detector data	
Sensor cooling	Stirling Microcooler (FLIR MC-3)
Detects following gases	Benzene, Ethanol, Ethylbenzene, Heptane, Hexane, Isoprene, Methanol, MEK, MIBK, Octane, Pentane, 1-Pentene, Toluene, Xylene, Butane, Ethane, Methane, Propane, Ethylene, Propylene
Electronics and data rate	
Full frame rate	60 Hz
Image presentation	
Display	Built-in widescreen, 4.3 in. LCD, 800 × 480 pixels
Viewfinder	Built-in, tiltable OLED, 800 × 480 pixels
Automatic image adjustment	Continuous/manual; linear or histogram based
Manual image adjustment	Level/span
Image presentation modes	
Image modes	IR image, visual image, high sensitivity mode (HSM)
Measurement	
Temperature range	−20°C to +350°C (−4°F to +662°F)
Accuracy	±1°C (±1.8°F) for temperature range (0°C, to +100°C, +32°F to +212°F) or ±2% of reading for temperature range (>+100°C, >+212°F)
Measurement analysis	
Spotmeter	10
Area	5 boxes with max./min./average
Profile	1 live line (horizontal or vertical)
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Emissivity correction	Variable from 0.01 to 1.0 or selected from editable materials list
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
Measurement corrections	Reflected temperature, distance, atmospheric transmission, humidity, external optics
Set-up	
Menu commands	Level, span Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image
Color palettes	Iron, Gray, Rainbow, Arctic, Lava, Rainbow HC
Set-up commands	1 programmable button, overlay recording mode, local adaptation of units, language, date and time formats
Storage of images	
Storage media	Removable SD or SDHC memory card , two card slots
Image storage capacity	> 1200 images (JPEG) with post process capability per GB on memory card

P/N: 44402-0102

© 2015, FLIR Systems, Inc.  
#44402-0102; r. 24597; en-US

Storage of images	
Image storage mode	IR/visual images Visual image can automatically be associated with corresponding IR image
Periodic image storage	Every 10 seconds up to 24 hours
File formats	Standard JPEG, 14 bit measurement data included
Geographic Information System	
GPS	Location data automatically added to every image from built-in GPS
Video recording in camera	
Non-radiometric IR video recording	MPEG4 (up to 60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non-radiometric IR video.
Visual video recording	MPEG4 (25 minutes/clip) to memory card
Video streaming	
Non-radiometric IR video streaming	RTP/MPEG4
Digital camera	
Built-in digital camera	3.2 Mpixels, auto focus, and two video lamps
Laser pointer	
Laser	Activated by dedicated button
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)
USB	
USB	<ul style="list-style-type: none"> <li>USB-A: Connect external USB device</li> <li>USB Mini-B: Data transfer to and from PC</li> </ul>
USB, standard	USB Mini-B: 2.0 high speed
Composite video	
Video out	Digital video output (image)
Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	7.2 V
Battery capacity	4.4 Ah
Battery operating time	> 3 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 95% capacity, charging status indicated by LED's
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
DC operation	10.8 to 16 V DC, polarity protected (proprietary protected)
Power	8.5 W typically
Start-up time	Typically 7 min. @ 25°C (+77°F)
Environmental data	
Operating temperature range	–20°C to +50°C (–4°F to +122°F)
Storage temperature range	–30°C to +60°C (–22°F to +140°F)

**P/N: 44402-0102**

© 2015, FLIR Systems, Inc.  
#44402-0102; r. 24597; en-US

<b>Environmental data</b>	
Humidity (operating and storage)	IEC 68-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) (2 cycles)
Directives	<ul style="list-style-type: none"> <li>• 73/23EEC</li> <li>• 2004/108/EC</li> <li>• 2002/95/EC</li> <li>• 2002/96/EC</li> </ul>
EMC	<ul style="list-style-type: none"> <li>• EN61000-6-4 (Emission)</li> <li>• EN61000-6-2 (Immunity)</li> <li>• FCC 47 CFR Part 15 class A (Emission)</li> <li>• EN 61 000-4-8, L5</li> </ul>
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	Power supply: EN/UL/IEC 60950-1
<b>Physical data</b>	
Camera weight, excl. lens and battery	1.94 kg (4.27 lb.)
Camera weight, incl. lens and excl. battery	2.24 kg (4.94 lb.)
Camera weight, incl. lens and battery	2.48 kg (5.47 lb.)
Battery weight	0.24 kg (0.52 lb.)
Camera size, excl. lens (L × W × H)	284 × 169 × 161 mm (11.2 × 6.7 × 6.3 in.)
Cameras size, incl. lens (L × W × H)	306 × 169 × 161 mm (12.0 × 6.7 × 6.3 in.)
Battery size (L × W × H)	141 × 47 × 28 mm (5.5 × 1.8 × 1.1 in.)
Battery charger size (L × W × H)	158 × 122 × 25 mm (6.2 × 4.8 × 1.0 in.)
Tripod mounting	UNC ¼"-20
Housing material	Aluminum, magnesium
Grip material	TPE thermoplastic elastomers
<b>Shipping information</b>	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Battery charger</li> <li>• Battery, 2 ea.</li> <li>• FLIR Tools download card</li> <li>• FLIR VideoReport PC software CD-ROM</li> <li>• Hard transport case</li> <li>• HDMI-DVI cable</li> <li>• HDMI-HDMI cable</li> <li>• Lens cap (mounted on lens)</li> <li>• Memory card</li> <li>• Power supply, incl. multi-plugs</li> <li>• Printed documentation</li> <li>• Shoulder strap</li> <li>• USB cable</li> <li>• User documentation CD-ROM</li> <li>• Wi-Fi USB micro adapter (depending on CE and FCC regulations regarding wireless equipment for your country)</li> </ul>
Packaging, weight	8.4 kg (18.5 lb.)
Packaging, size	400 × 190 × 510 mm (15.7 × 7.5 × 20.1 in.)

**Supplies & accessories:**

- T197692; Battery charger, incl. power supply with multi plugs
- T910814; Power supply, incl. multi plugs
- T198511; Li-Ion Battery pack 7.4V 33Wh
- T911230ACC; Memory card SDHC 4 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910815ACC; HDMI to HDMI cable 1.5 m

---

**P/N: 44402-0102**

© 2015, FLIR Systems, Inc.  
#44402-0102; r. 24597; en-US

- T910816ACC; HDMI to DVI cable 1.5 m
- T197555; Hard transport case for FLIR GF3xx-Series
- T951387; Wi-Fi USB micro adapter
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- T198585; FLIR VideoReport
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

**P/N: 57501-0102**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 57501-0102  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
The FLIR GF335 is a high-sensitivity, low-noise, cooled infrared camera for applications requiring a portable camera able to detect very subtle temperature differences. The high performance of the camera makes it perfect for the detection of faint heat signatures as well as for non-destructive testing and quality control applications.	
Benefits:	
<ul style="list-style-type: none"> <li>High performance: The FLIR GF335 features a cooled 3–5 <math>\mu\text{m}</math> InSb detector that produces razor-sharp thermal images. Its high sensitivity of <math>&lt;15\text{ mK}</math> and high accuracy of <math>\pm 1^\circ\text{C}</math> (<math>\pm 1.8^\circ\text{F}</math>) or 1% allow the user to detect very subtle temperature differences with astounding clarity.</li> <li>Improved efficiency: The wireless connectivity of the FLIR GF335 allows connection to smart phones and tablets for the wireless transfer of images or the remote control of the camera—a useful function if a second person is required to accompany the user. The camera also features built-in radiometric video recording, and can store MPEG-4 thermal and/or standard video on an SD card. The camera has integrated GPS and a digital camera, and is compatible with FLIR Tools, FLIR Reporter, and FLIR Researcher software.</li> <li>Thought-through ergonomics for everyday use: The FLIR GF335 is ergonomically designed, with a bright LCD and tiltable viewfinder, which facilitates its use over a full working day. A multi-angle handle with integrated direct access buttons also improves the ergonomics.</li> </ul>	
Licensing and classification	
License information	Interchangeable lens version of the FLIR GF3XX series requires US Department of State License and will be subject to limitations on resale, except inside US. Allow a minimum of 90 days after application submittal for approval.
Imaging and optical data	
IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	$<15\text{ mK}$ @ $+30^\circ\text{C}$ ( $+86^\circ\text{F}$ )
Field of view (FOV)	$24^\circ \times 18^\circ$
Minimum focus distance	0.3 m (1.0 ft.)
Focal length	23 mm (0.89 in.)
Lens identification	Automatic
F-number	1.5
Focus	Automatic (one touch) or manual (electric or on the lens)
Zoom	1–8× continuous, digital zoom
Digital image enhancement	Noise reduction filter
Detector data	
Detector type	Focal plane array (FPA), cooled InSb
Spectral range	3–5 $\mu\text{m}$
Detector pitch	30 $\mu\text{m}$
Sensor cooling	Stirling Microcooler (FLIR MC-3)

**P/N: 57501-0102**

© 2015, FLIR Systems, Inc.  
#57501-0102; r. 24597; en-US

<b>Electronics and data rate</b>	
Full frame rate	60 Hz
<b>Image presentation</b>	
Display	Built-in widescreen, 4.3 in. LCD, 800 × 480 pixels
Viewfinder	Built-in, tiltable OLED, 800 × 480 pixels
Automatic image adjustment	Continuous/manual; linear or histogram based
Manual image adjustment	Level/span
<b>Image presentation modes</b>	
Image modes	IR image, visual image
<b>Measurement</b>	
Temperature range	−20°C to +120°C (−4°F to +248°F)
Accuracy	±1°C (±1.8°F) or ±1% of reading for temperature range 0°C to +120°C (+32°F to +248°F)
<b>Measurement analysis</b>	
Spotmeter	10
Area	5 boxes with max./min./average
Profile	1 live line (horizontal or vertical)
Isotherm	Above/below/interval
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Emissivity correction	Variable from 0.01 to 1.0 or selected from editable materials list
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
Measurement corrections	Reflected temperature, distance, atmospheric transmission, humidity, external optics
<b>Set-up</b>	
Menu commands	Level, span Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image
Color palettes	Iron, Gray, Rainbow, Arctic, Lava, Rainbow HC
Set-up commands	1 programmable button, local adaptation of units, language, date and time formats
<b>Storage of images</b>	
Storage media	Removable SD or SDHC memory card , two card slots
Image storage capacity	> 1200 images (JPEG) with post process capability per GB on memory card
Image storage mode	IR/visual images Visual image can automatically be associated with corresponding IR image
Periodic image storage	Every 10 seconds up to 24 hours
File formats	Standard JPEG, 14 bit measurement data included

P/N: 57501-0102

© 2015, FLIR Systems, Inc.  
#57501-0102; r. 24597; en-US

Geographic Information System	
GPS	Location data automatically added to every image from built-in GPS
Video recording in camera	
Radiometric IR video recording	15 Hz direct to memory card
Non-radiometric IR video recording	MPEG4 (up to 60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non-radiometric IR video.
Visual video recording	MPEG4 (25 minutes/clip) to memory card
Video streaming	
Non-radiometric IR video streaming	RTP/MPEG4
Digital camera	
Built-in digital camera	3.2 Mpixels, auto focus, and two video lamps
Laser pointer	
Laser	Activated by dedicated button
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)
USB	
USB	<ul style="list-style-type: none"> <li>• USB-A: Connect external USB device</li> <li>• USB Mini-B: Data transfer to and from PC</li> </ul>
USB, standard	USB Mini-B: 2.0 high speed
Composite video	
Video out	Digital video output (image)
Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	7.2 V
Battery capacity	4.4 Ah
Battery operating time	> 3 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 95% capacity, charging status indicated by LED's
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
DC operation	10.8 to 16 V DC, polarity protected (proprietary protected)
Power	8.5 W typically
Start-up time	Typically 7 min. @ 25°C (+77°F)
Environmental data	
Operating temperature range	–20°C to +50°C (–4°F to +122°F)
Storage temperature range	–30°C to +60°C (–22°F to +140°F)
Humidity (operating and storage)	IEC 68-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) (2 cycles)
Directives	<ul style="list-style-type: none"> <li>• 73/23EEC</li> <li>• 2004/108/EC</li> <li>• 2002/95/EC</li> <li>• 2002/96/EC</li> </ul>

P/N: 57501-0102

© 2015, FLIR Systems, Inc.  
#57501-0102; r. 24597; en-US

Environmental data	
EMC	<ul style="list-style-type: none"> <li>EN61000-6-4 (Emission)</li> <li>EN61000-6-2 (Immunity)</li> <li>FCC 47 CFR Part 15 class A (Emission)</li> <li>EN 61 000-4-8, L5</li> </ul>
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	Power supply: EN/UL/IEC 60950-1

Physical data	
Camera weight, excl. lens and battery	1.94 kg (4.27 lb.)
Camera weight, incl. lens and excl. battery	2.24 kg (4.94 lb.)
Camera weight, incl. lens and battery	2.48 kg (5.47 lb.)
Battery weight	0.24 kg (0.52 lb.)
Heat shield weight	0.50 kg (1.09 lb.)
Camera size, excl. lens (L × W × H)	284 × 169 × 161 mm (11.2 × 6.7 × 6.3 in.)
Cameras size, incl. lens (L × W × H)	306 × 169 × 161 mm (12.0 × 6.7 × 6.3 in.)
Cameras size, incl. heat shield (L × W × H)	320 × 243 × 195 mm (12.6 × 9.6 × 7.7 in.)
Battery size (L × W × H)	141 × 47 × 28 mm (5.5 × 1.8 × 1.1 in.)
Battery charger size (L × W × H)	158 × 122 × 25 mm (6.2 × 4.8 × 1.0 in.)
Tripod mounting	UNC ¼"-20
Housing material	Aluminum, magnesium
Grip material	TPE thermoplastic elastomers

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Infrared camera with lens</li> <li>Battery charger</li> <li>Battery, 2 ea.</li> <li>FLIR ResearchIR Standard 4</li> <li>FLIR Tools download card</li> <li>Hard transport case</li> <li>HDMI-DVI cable</li> <li>HDMI-HDMI cable</li> <li>Lens cap (2 ea.)</li> <li>Lens cap (mounted on lens)</li> <li>Memory card</li> <li>Power supply, incl. multi-plugs</li> <li>Printed documentation</li> <li>Shoulder strap</li> <li>USB cable</li> <li>User documentation CD-ROM</li> <li>Wi-Fi USB micro adapter (depending on CE and FCC regulations regarding wireless equipment for your country)</li> </ul>
Packaging, weight	8.35 kg (18.4 lb.)
Packaging, size	400 × 190 × 510 mm (15.7 × 7.5 × 20.1 in.)

#### Supplies & accessories:

- T198267; IR lens, 24° with case for GF335, GF346
- T198298; IR lens, 14.5° with case for GF335, GF346
- T197692; Battery charger, incl. power supply with multi plugs
- T910814; Power supply, incl. multi plugs
- T198511; Li-Ion Battery pack 7.4V 33Wh
- T911230ACC; Memory card SDHC 4 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910815ACC; HDMI to HDMI cable 1.5 m



**P/N: 57501-0102**

© 2015, FLIR Systems, Inc.  
#57501-0102; r. 24597; en-US

- T910816ACC; HDMI to DVI cable 1.5 m
- T197555; Hard transport case for FLIR GF3xx-Series
- T951387; Wi-Fi USB micro adapter
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

**P/N: 65702-0102**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 65702-0102  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The new FLIR GF343 is an optical gas camera for visualizing carbon dioxide (CO<sub>2</sub>). With this camera you can quickly and easily find gas leaks where CO<sub>2</sub> is the main component.

### Key features:

- Visualizes gas leaks in real time.
- Inspects without interruption of process.
- Traces leaks to their source.

### Carbon capture and storage—stop the escalation of global warming:

- A global transition to a sustainable low-carbon economy is a necessity.
- Global energy demand is still dominated by fossil fuels being combusted in quantities incompatible with levels required to stabilize greenhouse gases concentrations at safe levels in the atmosphere.

### CO<sub>2</sub> (R744)—the new environmental friendly refrigerant:

- Air-conditioning for cars—replaces R134a.
- CO<sub>2</sub>-based heat pumps.
- Electrical power—replaces sulfur hexafluoride.

### CO<sub>2</sub>—a harmless tracer gas:

- Use CO<sub>2</sub> to trace leaks.

## Note

The CO<sub>2</sub> background level in the atmosphere varies between about 400 ppm (e.g., outdoors) to 5000 ppm (e.g., very high levels indoors), and the ability to see a CO<sub>2</sub> leak using the FLIR GF343 depends on this gas concentration and also on the distance to the target. For example, an outdoor leak at a distance of 10 m (33') adds 4000 ppm × m to the gas concentration length.

## Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	<15 mK @ +30°C (+86°F)
Field of view (FOV)	24° × 18°
Minimum focus distance	0.3 m (1.0 ft.)
Focal length	23 mm (0.89 in.)
Lens identification	Automatic
F-number	1.5
Focus	Automatic (one touch) or manual (electric or on the lens)
Zoom	1–8× continuous, digital zoom
Digital image enhancement	Noise reduction filter, high sensitivity mode (HSM)

## Detector data

Detector type	Focal plane array (FPA), cooled InSb
Spectral range	Built-in cold band pass filter 4.2–4.4 μm
Detector pitch	30 μm
Sensor cooling	Stirling Microcooler (FLIR MC-3)
Detects following gases	Carbon dioxide

P/N: 65702-0102

© 2015, FLIR Systems, Inc.  
#65702-0102; r. 24597; en-US

<b>Electronics and data rate</b>	
Full frame rate	60 Hz
<b>Image presentation</b>	
Display	Built-in widescreen, 4.3 in. LCD, 800 × 480 pixels
Viewfinder	Built-in, tiltable OLED, 800 × 480 pixels
Automatic image adjustment	Continuous/manual; linear or histogram based
Manual image adjustment	Level/span
<b>Image presentation modes</b>	
Image modes	IR image, visual image, high sensitivity mode (HSM)
<b>Measurement analysis</b>	
Spotmeter	10
Area	5 boxes with max./min./average
Profile	1 live line (horizontal or vertical)
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Emissivity correction	Variable from 0.01 to 1.0 or selected from editable materials list
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
Measurement corrections	Reflected temperature, distance, atmospheric transmission, humidity, external optics
<b>Set-up</b>	
Menu commands	Level, span Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image
Color palettes	Iron, Gray, Rainbow, Arctic, Lava, Rainbow HC
Set-up commands	1 programmable button, overlay recording mode, local adaptation of units, language, date and time formats
<b>Storage of images</b>	
Storage media	Removable SD or SDHC memory card , two card slots
Image storage capacity	> 1200 images (JPEG) with post process capability per GB on memory card
Image storage mode	IR/visual images Visual image can automatically be associated with corresponding IR image
Periodic image storage	Every 10 seconds up to 24 hours
File formats	Standard JPEG, 14 bit measurement data included
<b>Geographic Information System</b>	
GPS	Location data automatically added to every image from built-in GPS

P/N: 65702-0102

© 2015, FLIR Systems, Inc.  
#65702-0102; r. 24597; en-US

Video recording in camera	
Non-radiometric IR video recording	MPEG4 (up to 60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non-radiometric IR video.
Visual video recording	MPEG4 (25 minutes/clip) to memory card
Video streaming	
Non-radiometric IR video streaming	RTP/MPEG4
Digital camera	
Built-in digital camera	3.2 Mpixels, auto focus, and two video lamps
Laser pointer	
Laser	Activated by dedicated button
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)
USB	
USB	<ul style="list-style-type: none"> <li>USB-A: Connect external USB device</li> <li>USB Mini-B: Data transfer to and from PC</li> </ul>
USB, standard	USB Mini-B: 2.0 high speed
Composite video	
Video out	Digital video output (image)
Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	7.2 V
Battery capacity	4.4 Ah
Battery operating time	> 3 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 95% capacity, charging status indicated by LED's
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
DC operation	10.8 to 16 V DC, polarity protected (proprietary protected)
Power	8.5 W typically
Start-up time	Typically 7 min. @ 25°C (+77°F)
Environmental data	
Operating temperature range	–20°C to +50°C (–4°F to +122°F)
Storage temperature range	–30°C to +60°C (–22°F to +140°F)
Humidity (operating and storage)	IEC 68-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) (2 cycles)
Directives	<ul style="list-style-type: none"> <li>73/23EEC</li> <li>2004/108/EC</li> <li>2002/95/EC</li> <li>2002/96/EC</li> </ul>
EMC	<ul style="list-style-type: none"> <li>EN61000-6-4 (Emission)</li> <li>EN61000-6-2 (Immunity)</li> <li>FCC 47 CFR Part 15 class A (Emission)</li> <li>EN 61 000-4-8, L5</li> </ul>
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)

**P/N: 65702-0102**

 © 2015, FLIR Systems, Inc.  
 #65702-0102; r. 24597; en-US

Environmental data	
Vibration	2 g (IEC 60068-2-6)
Safety	Power supply: EN/UL/IEC 60950-1
Physical data	
Camera weight, excl. lens and battery	1.94 kg (4.27 lb.)
Camera weight, incl. lens and excl. battery	2.24 kg (4.94 lb.)
Camera weight, incl. lens and battery	2.48 kg (5.47 lb.)
Battery weight	0.24 kg (0.52 lb.)
Camera size, excl. lens (L × W × H)	284 × 169 × 161 mm (11.2 × 6.7 × 6.3 in.)
Cameras size, incl. lens (L × W × H)	306 × 169 × 161 mm (12.0 × 6.7 × 6.3 in.)
Battery size (L × W × H)	141 × 47 × 28 mm (5.5 × 1.8 × 1.1 in.)
Battery charger size (L × W × H)	158 × 122 × 25 mm (6.2 × 4.8 × 1.0 in.)
Tripod mounting	UNC ¼"-20
Housing material	Aluminum, magnesium
Grip material	TPE thermoplastic elastomers
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Battery charger</li> <li>• Battery, 2 ea.</li> <li>• FLIR Tools download card</li> <li>• FLIR VideoReport PC software CD-ROM</li> <li>• Hard transport case</li> <li>• HDMI-DVI cable</li> <li>• HDMI-HDMI cable</li> <li>• Lens cap (mounted on lens)</li> <li>• Memory card</li> <li>• Power supply, incl. multi-plugs</li> <li>• Printed documentation</li> <li>• Shoulder strap</li> <li>• USB cable</li> <li>• User documentation CD-ROM</li> <li>• Wi-Fi USB micro adapter (depending on CE and FCC regulations regarding wireless equipment for your country)</li> </ul>
Packaging, weight	
Packaging, size	400 × 190 × 510 mm (15.7 × 7.5 × 20.1 in.)
EAN-13	7332558008485
UPC-12	845188008840
Country of origin	Sweden

**P/N: 59801-0101**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 59801-0101  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR GF346 is an infrared camera for optical gas imaging (OGI) that visualizes and pinpoints gas leaks of carbon monoxide (CO) and other harmful gases, without the need to shut down the operation. The portable camera also greatly improves operator safety, by detecting emissions at a safe distance, and helps to protect the environment by tracing leaks of environmentally harmful gases.

CO is an industrial gas with applications in the steel industry and bulk chemicals manufacturing. It is also used for packaging systems for fresh meat and fish.

## Benefits:

- **Improved efficiency:** The FLIR GF346 reduces revenue loss by pinpointing even small gas leaks quickly and efficiently, and from a distance. It also reduces the inspection time by allowing a broad area to be scanned rapidly and without the need to interrupt the industrial process. The wireless connectivity of the camera allows you to connect to smart phones or tablets for the wireless transfer of images or remote control of the camera. The FLIR GF346 can also be used for temperature measurement, which makes it even more useful for predictive maintenance.
- **Increased worker safety:** CO can be toxic to humans when encountered in higher concentrations. OGI allows gas leaks to be detected in a non-contact mode and from a safe distance. This reduces the risk of the user being exposed to invisible and highly toxic gases or explosive chemicals. With a FLIR GF346 gas imaging camera it is easy to scan areas of interest that are difficult to reach with conventional methods. The camera is ergonomically designed, with a bright LCD and tiltable viewfinder, which facilitates its use over a full working day.
- **Protecting the environment:** Several gases, such as CO, have a high global warming potential, and are usually governed by regulations. Even small leaks can be detected and documented using the FLIR GF346 camera.

Detects the following gases: carbon monoxide, nitrous oxide, ketene, ethenone, butyl isocyanide, hexyl isocyanide, cyanogen bromide, acetoneitrile, acetyl cyanide, chlorine isocyanate, bromine isocyanate, methyl thiocyanate, ethyl thiocyanate, chlorodimethylsilane, dichloromethylsilane, silane, germane, arsine.

## Licensing and classification

License information	Interchangeable lens version of the FLIR GF3XX series requires US Department of State License and will be subject to limitations on resale, except inside US. Allow a minimum of 90 days after application submittal for approval.
---------------------	--

## Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	<15 mK @ +30°C (+86°F)
Field of view (FOV)	14.5° × 10.8°
Minimum focus distance	0.5 m (1.64 ft.)
Focal length	38 mm (1.49 in.)
Lens identification	Automatic
F-number	1.5
Focus	Automatic (one touch) or manual (electric or on the lens)
Zoom	1–8× continuous, digital zoom
Digital image enhancement	Noise reduction filter, high sensitivity mode (HSM)

**P/N: 59801-0101**

© 2015, FLIR Systems, Inc.  
#59801-0101; r. 24597; en-US

Detector data	
Detector type	Focal plane array (FPA), cooled InSb
Spectral range	Built-in cold band pass filter 4.52–4.67 $\mu\text{m}$
Detector pitch	30 $\mu\text{m}$
Sensor cooling	Stirling Microcooler (FLIR MC-3)
Detects following gases	Carbon Monoxide, Nitrous Oxide, Ketene, Ethenone, Butyl Isocyanide, Hexyl Isocyanide, Cyanogen Bromide, Acetonitrile, Acetyl Cyanide, Chlorine Isocyanate, Bromine Isocyanate, Methyl Thiocyanate, Ethyl Thiocyanate, Chlorodimethylsilane, Dichloromethylsilane, Silane, Germane, Arsine
Electronics and data rate	
Full frame rate	60 Hz
Image presentation	
Display	Built-in widescreen, 4.3 in. LCD, 800 × 480 pixels
Viewfinder	Built-in, tiltable OLED, 800 × 480 pixels
Automatic image adjustment	Continuous/manual; linear or histogram based
Manual image adjustment	Level/span
Image presentation modes	
Image modes	IR image, visual image, high sensitivity mode (HSM)
Measurement	
Temperature range	–20°C to +300°C (–4°F to +572°F)
Accuracy	±1°C (±1.8°F) or ±1% of reading for temperature range 0°C to +300°C (+32°F to +572°F)
Measurement analysis	
Spotmeter	10
Area	5 boxes with max./min./average
Profile	1 live line (horizontal or vertical)
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Emissivity correction	Variable from 0.01 to 1.0 or selected from editable materials list
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
Measurement corrections	Reflected temperature, distance, atmospheric transmission, humidity, external optics
Set-up	
Menu commands	Level, span Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image
Color palettes	Iron, Gray, Rainbow, Arctic, Lava, Rainbow HC
Set-up commands	1 programmable button, overlay recording mode, local adaptation of units, language, date and time formats

P/N: 59801-0101

© 2015, FLIR Systems, Inc.  
#59801-0101; r. 24597; en-US

Storage of images	
Storage media	Removable SD or SDHC memory card , two card slots
Image storage capacity	> 1200 images (JPEG) with post process capability per GB on memory card
Image storage mode	IR/visual images Visual image can automatically be associated with corresponding IR image
Periodic image storage	Every 10 seconds up to 24 hours
File formats	Standard JPEG, 14 bit measurement data included
Geographic Information System	
GPS	Location data automatically added to every image from built-in GPS
Video recording in camera	
Non-radiometric IR video recording	MPEG4 (up to 60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non-radiometric IR video.
Visual video recording	MPEG4 (25 minutes/clip) to memory card
Video streaming	
Non-radiometric IR video streaming	RTP/MPEG4
Digital camera	
Built-in digital camera	3.2 Mpixels, auto focus, and two video lamps
Laser pointer	
Laser	Activated by dedicated button
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)
USB	
USB	<ul style="list-style-type: none"> <li>USB-A: Connect external USB device</li> <li>USB Mini-B: Data transfer to and from PC</li> </ul>
USB, standard	USB Mini-B: 2.0 high speed
Composite video	
Video out	Digital video output (image)
Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	7.2 V
Battery capacity	4.4 Ah
Battery operating time	> 3 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 95% capacity, charging status indicated by LED's
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
DC operation	10.8 to 16 V DC, polarity protected (proprietary protected)
Power	8.5 W typically
Start-up time	Typically 7 min. @ 25°C (+77°F)



**P/N: 59801-0101**

© 2015, FLIR Systems, Inc.  
#59801-0101; r. 24597; en-US

Environmental data	
Operating temperature range	–20°C to +50°C (–4°F to +122°F)
Storage temperature range	–30°C to +60°C (–22°F to +140°F)
Humidity (operating and storage)	IEC 68-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) (2 cycles)
Directives	<ul style="list-style-type: none"> <li>• 73/23EEC</li> <li>• 2004/108/EC</li> <li>• 2002/95/EC</li> <li>• 2002/96/EC</li> </ul>
EMC	<ul style="list-style-type: none"> <li>• EN61000-6-4 (Emission)</li> <li>• EN61000-6-2 (Immunity)</li> <li>• FCC 47 CFR Part 15 class A (Emission)</li> <li>• EN 61 000-4-8, L5</li> </ul>
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	Power supply: EN/UL/IEC 60950-1

Physical data	
Camera weight, excl. lens and battery	1.94 kg (4.27 lb.)
Camera weight, incl. lens and excl. battery	2.24 kg (4.94 lb.)
Camera weight, incl. lens and battery	2.48 kg (5.47 lb.)
Battery weight	0.24 kg (0.52 lb.)
Camera size, excl. lens (L × W × H)	284 × 169 × 161 mm (11.2 × 6.7 × 6.3 in.)
Cameras size, incl. lens (L × W × H)	305 × 169 × 161 mm (12.0 × 6.7 × 6.3 in.)
Battery size (L × W × H)	141 × 47 × 28 mm (5.5 × 1.8 × 1.1 in.)
Battery charger size (L × W × H)	158 × 122 × 25 mm (6.2 × 4.8 × 1.0 in.)
Tripod mounting	UNC ¼"-20
Housing material	Aluminum, magnesium
Grip material	TPE thermoplastic elastomers

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Battery charger</li> <li>• Battery, 2 ea.</li> <li>• FLIR Tools download card</li> <li>• FLIR VideoReport PC software CD-ROM</li> <li>• Hard transport case</li> <li>• HDMI-DVI cable</li> <li>• HDMI-HDMI cable</li> <li>• Lens cap (2 ea.)</li> <li>• Lens cap (mounted on lens)</li> <li>• Memory card</li> <li>• Power supply, incl. multi-plugs</li> <li>• Printed documentation</li> <li>• Shoulder strap</li> <li>• USB cable</li> <li>• User documentation CD-ROM</li> <li>• Wi-Fi USB micro adapter (depending on CE and FCC regulations regarding wireless equipment for your country)</li> </ul>
Packaging, weight	
Packaging, size	400 × 190 × 510 mm (15.7 × 7.5 × 20.1 in.)

**Supplies & accessories:**

- T197388; IR lens, 6° with case for GF300, GF309, GF320, GF346.
- T198267; IR lens, 24° with case for GF335, GF346
- T198298; IR lens, 14.5° with case for GF335, GF346

**P/N: 59801-0101**

© 2015, FLIR Systems, Inc.  
#59801-0101; r. 24597; en-US

- T197692; Battery charger, incl. power supply with multi plugs
- T910814; Power supply, incl. multi plugs
- T198511; Li-Ion Battery pack 7.4V 33Wh
- T911230ACC; Memory card SDHC 4 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910815ACC; HDMI to HDMI cable 1.5 m
- T910816ACC; HDMI to DVI cable 1.5 m
- T197555; Hard transport case for FLIR GF3xx-Series
- T951387; Wi-Fi USB micro adapter
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- T198585; FLIR VideoReport
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

**P/N: 59802-0101**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 59802-0101  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR GF346 is an infrared camera for optical gas imaging (OGI) that visualizes and pinpoints gas leaks of carbon monoxide (CO) and other harmful gases, without the need to shut down the operation. The portable camera also greatly improves operator safety, by detecting emissions at a safe distance, and helps to protect the environment by tracing leaks of environmentally harmful gases.

CO is an industrial gas with applications in the steel industry and bulk chemicals manufacturing. It is also used for packaging systems for fresh meat and fish.

## Benefits:

- **Improved efficiency:** The FLIR GF346 reduces revenue loss by pinpointing even small gas leaks quickly and efficiently, and from a distance. It also reduces the inspection time by allowing a broad area to be scanned rapidly and without the need to interrupt the industrial process. The wireless connectivity of the camera allows you to connect to smart phones or tablets for the wireless transfer of images or remote control of the camera. The FLIR GF346 can also be used for temperature measurement, which makes it even more useful for predictive maintenance.
- **Increased worker safety:** CO can be toxic to humans when encountered in higher concentrations. OGI allows gas leaks to be detected in a non-contact mode and from a safe distance. This reduces the risk of the user being exposed to invisible and highly toxic gases or explosive chemicals. With a FLIR GF346 gas imaging camera it is easy to scan areas of interest that are difficult to reach with conventional methods. The camera is ergonomically designed, with a bright LCD and tiltable viewfinder, which facilitates its use over a full working day.
- **Protecting the environment:** Several gases, such as CO, have a high global warming potential, and are usually governed by regulations. Even small leaks can be detected and documented using the FLIR GF346 camera.

Detects the following gases: carbon monoxide, nitrous oxide, ketene, ethenone, butyl isocyanide, hexyl isocyanide, cyanogen bromide, acetonitrile, acetyl cyanide, chlorine isocyanate, bromine isocyanate, methyl thiocyanate, ethyl thiocyanate, chlorodimethylsilane, dichloromethylsilane, silane, germane, arsine.

## Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	<15 mK @ +30°C (+86°F)
Field of view (FOV)	14.5° × 10.8°
Minimum focus distance	0.5 m (1.64 ft.)
Focal length	38 mm (1.49 in.)
Lens identification	Automatic
F-number	1.5
Focus	Automatic (one touch) or manual (electric or on the lens)
Zoom	1–8× continuous, digital zoom
Digital image enhancement	Noise reduction filter, high sensitivity mode (HSM)

## Detector data

Detector type	Focal plane array (FPA), cooled InSb
Spectral range	Built-in cold band pass filter 4.52–4.67 μm
Detector pitch	30 μm

P/N: 59802-0101

© 2015, FLIR Systems, Inc.  
#59802-0101; r. 24597; en-US

Detector data	
Sensor cooling	Stirling Microcooler (FLIR MC-3)
Detects following gases	Carbon Monoxide, Nitrous Oxide, Ketene, Ethenone, Butyl Isocyanide, Hexyl Isocyanide, Cyanogen Bromide, Acetonitrile, Acetyl Cyanide, Chlorine Isocyanate, Bromine Isocyanate, Methyl Thiocyanate, Ethyl Thiocyanate, Chlorodimethylsilane, Dichloromethylsilane, Silane, Germane, Arsine
Electronics and data rate	
Full frame rate	60 Hz
Image presentation	
Display	Built-in widescreen, 4.3 in. LCD, 800 × 480 pixels
Viewfinder	Built-in, tiltable OLED, 800 × 480 pixels
Automatic image adjustment	Continuous/manual; linear or histogram based
Manual image adjustment	Level/span
Image presentation modes	
Image modes	IR image, visual image, high sensitivity mode (HSM)
Measurement	
Temperature range	−20°C to +300°C (−4°F to +572°F)
Accuracy	±1°C (±1.8°F) or ±1% of reading for temperature range 0°C to +300°C (+32°F to +572°F)
Measurement analysis	
Spotmeter	10
Area	5 boxes with max./min./average
Profile	1 live line (horizontal or vertical)
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Emissivity correction	Variable from 0.01 to 1.0 or selected from editable materials list
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
Measurement corrections	Reflected temperature, distance, atmospheric transmission, humidity, external optics
Set-up	
Menu commands	Level, span Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image
Color palettes	Iron, Gray, Rainbow, Arctic, Lava, Rainbow HC
Set-up commands	1 programmable button, overlay recording mode, local adaptation of units, language, date and time formats

P/N: 59802-0101

© 2015, FLIR Systems, Inc.  
#59802-0101; r. 24597; en-US

Storage of images	
Storage media	Removable SD or SDHC memory card , two card slots
Image storage capacity	> 1200 images (JPEG) with post process capability per GB on memory card
Image storage mode	IR/visual images Visual image can automatically be associated with corresponding IR image
Periodic image storage	Every 10 seconds up to 24 hours
File formats	Standard JPEG, 14 bit measurement data included
Geographic Information System	
GPS	Location data automatically added to every image from built-in GPS
Video recording in camera	
Non-radiometric IR video recording	MPEG4 (up to 60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non-radiometric IR video.
Visual video recording	MPEG4 (25 minutes/clip) to memory card
Video streaming	
Non-radiometric IR video streaming	RTP/MPEG4
Digital camera	
Built-in digital camera	3.2 Mpixels, auto focus, and two video lamps
Laser pointer	
Laser	Activated by dedicated button
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)
USB	
USB	<ul style="list-style-type: none"> <li>USB-A: Connect external USB device</li> <li>USB Mini-B: Data transfer to and from PC</li> </ul>
USB, standard	USB Mini-B: 2.0 high speed
Composite video	
Video out	Digital video output (image)
Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	7.2 V
Battery capacity	4.4 Ah
Battery operating time	> 3 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 95% capacity, charging status indicated by LED's
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
DC operation	10.8 to 16 V DC, polarity protected (proprietary protected)
Power	8.5 W typically
Start-up time	Typically 7 min. @ 25°C (+77°F)

**P/N: 59802-0101**

 © 2015, FLIR Systems, Inc.  
 #59802-0101; r. 24597; en-US

<b>Environmental data</b>	
Operating temperature range	–20°C to +50°C (–4°F to +122°F)
Storage temperature range	–30°C to +60°C (–22°F to +140°F)
Humidity (operating and storage)	IEC 68-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) (2 cycles)
Directives	<ul style="list-style-type: none"> <li>• 73/23EEC</li> <li>• 2004/108/EC</li> <li>• 2002/95/EC</li> <li>• 2002/96/EC</li> </ul>
EMC	<ul style="list-style-type: none"> <li>• EN61000-6-4 (Emission)</li> <li>• EN61000-6-2 (Immunity)</li> <li>• FCC 47 CFR Part 15 class A (Emission)</li> <li>• EN 61 000-4-8, L5</li> </ul>
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	Power supply: EN/UL/IEC 60950-1

<b>Physical data</b>	
Camera weight, excl. lens and battery	1.94 kg (4.27 lb.)
Camera weight, incl. lens and excl. battery	2.24 kg (4.94 lb.)
Camera weight, incl. lens and battery	2.48 kg (5.47 lb.)
Battery weight	0.24 kg (0.52 lb.)
Camera size, excl. lens (L × W × H)	284 × 169 × 161 mm (11.2 × 6.7 × 6.3 in.)
Cameras size, incl. lens (L × W × H)	305 × 169 × 161 mm (12.0 × 6.7 × 6.3 in.)
Battery size (L × W × H)	141 × 47 × 28 mm (5.5 × 1.8 × 1.1 in.)
Battery charger size (L × W × H)	158 × 122 × 25 mm (6.2 × 4.8 × 1.0 in.)
Tripod mounting	UNC ¼"-20
Housing material	Aluminum, magnesium
Grip material	TPE thermoplastic elastomers

<b>Shipping information</b>	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Battery charger</li> <li>• Battery, 2 ea.</li> <li>• FLIR Tools download card</li> <li>• FLIR VideoReport PC software CD-ROM</li> <li>• Hard transport case</li> <li>• HDMI-DVI cable</li> <li>• HDMI-HDMI cable</li> <li>• Lens cap (mounted on lens)</li> <li>• Memory card</li> <li>• Power supply, incl. multi-plugs</li> <li>• Printed documentation</li> <li>• Shoulder strap</li> <li>• USB cable</li> <li>• User documentation CD-ROM</li> <li>• Wi-Fi USB micro adapter (depending on CE and FCC regulations regarding wireless equipment for your country)</li> </ul>
Packaging, weight	
Packaging, size	400 × 190 × 510 mm (15.7 × 7.5 × 20.1 in.)

**Supplies & accessories:**

- T197692; Battery charger, incl. power supply with multi plugs
- T910814; Power supply, incl. multi plugs
- T198511; Li-Ion Battery pack 7.4V 33Wh
- T911230ACC; Memory card SDHC 4 GB

**P/N: 59802-0101**

© 2015, FLIR Systems, Inc.  
#59802-0101; r. 24597; en-US

- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910815ACC; HDMI to HDMI cable 1.5 m
- T910816ACC; HDMI to DVI cable 1.5 m
- T197555; Hard transport case for FLIR GF3xx-Series
- T951387; Wi-Fi USB micro adapter
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- T198585; FLIR VideoReport
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

**P/N: 59801-0102**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 59801-0102  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR GF346 is an infrared camera for optical gas imaging (OGI) that visualizes and pinpoints gas leaks of carbon monoxide (CO) and other harmful gases, without the need to shut down the operation. The portable camera also greatly improves operator safety, by detecting emissions at a safe distance, and helps to protect the environment by tracing leaks of environmentally harmful gases.

CO is an industrial gas with applications in the steel industry and bulk chemicals manufacturing. It is also used for packaging systems for fresh meat and fish.

## Benefits:

- **Improved efficiency:** The FLIR GF346 reduces revenue loss by pinpointing even small gas leaks quickly and efficiently, and from a distance. It also reduces the inspection time by allowing a broad area to be scanned rapidly and without the need to interrupt the industrial process. The wireless connectivity of the camera allows you to connect to smart phones or tablets for the wireless transfer of images or remote control of the camera. The FLIR GF346 can also be used for temperature measurement, which makes it even more useful for predictive maintenance.
- **Increased worker safety:** CO can be toxic to humans when encountered in higher concentrations. OGI allows gas leaks to be detected in a non-contact mode and from a safe distance. This reduces the risk of the user being exposed to invisible and highly toxic gases or explosive chemicals. With a FLIR GF346 gas imaging camera it is easy to scan areas of interest that are difficult to reach with conventional methods. The camera is ergonomically designed, with a bright LCD and tiltable viewfinder, which facilitates its use over a full working day.
- **Protecting the environment:** Several gases, such as CO, have a high global warming potential, and are usually governed by regulations. Even small leaks can be detected and documented using the FLIR GF346 camera.

Detects the following gases: carbon monoxide, nitrous oxide, ketene, ethenone, butyl isocyanide, hexyl isocyanide, cyanogen bromide, acetoneitrile, acetyl cyanide, chlorine isocyanate, bromine isocyanate, methyl thiocyanate, ethyl thiocyanate, chlorodimethylsilane, dichloromethylsilane, silane, germane, arsine.

## Licensing and classification

License information	Interchangeable lens version of the FLIR GF3XX series requires US Department of State License and will be subject to limitations on resale, except inside US. Allow a minimum of 90 days after application submittal for approval.
---------------------	--

## Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	<15 mK @ +30°C (+86°F)
Field of view (FOV)	24° × 18°
Minimum focus distance	0.3 m (1.0 ft.)
Focal length	23 mm (0.89 in.)
Lens identification	Automatic
F-number	1.5
Focus	Automatic (one touch) or manual (electric or on the lens)
Zoom	1–8× continuous, digital zoom
Digital image enhancement	Noise reduction filter, high sensitivity mode (HSM)



**P/N: 59801-0102**

© 2015, FLIR Systems, Inc.  
#59801-0102; r. 24597; en-US

Detector data	
Detector type	Focal plane array (FPA), cooled InSb
Spectral range	Built-in cold band pass filter 4.52–4.67 $\mu\text{m}$
Detector pitch	30 $\mu\text{m}$
Sensor cooling	Stirling Microcooler (FLIR MC-3)
Detects following gases	Carbon Monoxide, Nitrous Oxide, Ketene, Ethenone, Butyl Isocyanide, Hexyl Isocyanide, Cyanogen Bromide, Acetonitrile, Acetyl Cyanide, Chlorine Isocyanate, Bromine Isocyanate, Methyl Thiocyanate, Ethyl Thiocyanate, Chlorodimethylsilane, Dichloromethylsilane, Silane, Germane, Arsine
Electronics and data rate	
Full frame rate	60 Hz
Image presentation	
Display	Built-in widescreen, 4.3 in. LCD, 800 × 480 pixels
Viewfinder	Built-in, tiltable OLED, 800 × 480 pixels
Automatic image adjustment	Continuous/manual; linear or histogram based
Manual image adjustment	Level/span
Image presentation modes	
Image modes	IR image, visual image, high sensitivity mode (HSM)
Measurement	
Temperature range	–20°C to +300°C (–4°F to +572°F)
Accuracy	±1°C (±1.8°F) or ±1% of reading for temperature range 0°C to +300°C (+32°F to +572°F)
Measurement analysis	
Spotmeter	10
Area	5 boxes with max./min./average
Profile	1 live line (horizontal or vertical)
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Emissivity correction	Variable from 0.01 to 1.0 or selected from editable materials list
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
Measurement corrections	Reflected temperature, distance, atmospheric transmission, humidity, external optics
Set-up	
Menu commands	Level, span Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image
Color palettes	Iron, Gray, Rainbow, Arctic, Lava, Rainbow HC
Set-up commands	1 programmable button, overlay recording mode, local adaptation of units, language, date and time formats

**P/N: 59801-0102**

© 2015, FLIR Systems, Inc.  
#59801-0102; r. 24597; en-US

Storage of images	
Storage media	Removable SD or SDHC memory card , two card slots
Image storage capacity	> 1200 images (JPEG) with post process capability per GB on memory card
Image storage mode	IR/visual images Visual image can automatically be associated with corresponding IR image
Periodic image storage	Every 10 seconds up to 24 hours
File formats	Standard JPEG, 14 bit measurement data included
Geographic Information System	
GPS	Location data automatically added to every image from built-in GPS
Video recording in camera	
Non-radiometric IR video recording	MPEG4 (up to 60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non-radiometric IR video.
Visual video recording	MPEG4 (25 minutes/clip) to memory card
Video streaming	
Non-radiometric IR video streaming	RTP/MPEG4
Digital camera	
Built-in digital camera	3.2 Mpixels, auto focus, and two video lamps
Laser pointer	
Laser	Activated by dedicated button
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)
USB	
USB	<ul style="list-style-type: none"> <li>USB-A: Connect external USB device</li> <li>USB Mini-B: Data transfer to and from PC</li> </ul>
USB, standard	USB Mini-B: 2.0 high speed
Composite video	
Video out	Digital video output (image)
Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	7.2 V
Battery capacity	4.4 Ah
Battery operating time	> 3 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 95% capacity, charging status indicated by LED's
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
DC operation	10.8 to 16 V DC, polarity protected (proprietary protected)
Power	8.5 W typically
Start-up time	Typically 7 min. @ 25°C (+77°F)

**P/N: 59801-0102**

© 2015, FLIR Systems, Inc.  
#59801-0102; r. 24597; en-US

Environmental data	
Operating temperature range	–20°C to +50°C (–4°F to +122°F)
Storage temperature range	–30°C to +60°C (–22°F to +140°F)
Humidity (operating and storage)	IEC 68-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) (2 cycles)
Directives	<ul style="list-style-type: none"> <li>• 73/23EEC</li> <li>• 2004/108/EC</li> <li>• 2002/95/EC</li> <li>• 2002/96/EC</li> </ul>
EMC	<ul style="list-style-type: none"> <li>• EN61000-6-4 (Emission)</li> <li>• EN61000-6-2 (Immunity)</li> <li>• FCC 47 CFR Part 15 class A (Emission)</li> <li>• EN 61 000-4-8, L5</li> </ul>
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	Power supply: EN/UL/IEC 60950-1

Physical data	
Camera weight, excl. lens and battery	1.94 kg (4.27 lb.)
Camera weight, incl. lens and excl. battery	2.24 kg (4.94 lb.)
Camera weight, incl. lens and battery	2.48 kg (5.47 lb.)
Battery weight	0.24 kg (0.52 lb.)
Camera size, excl. lens (L × W × H)	284 × 169 × 161 mm (11.2 × 6.7 × 6.3 in.)
Cameras size, incl. lens (L × W × H)	306 × 169 × 161 mm (12.0 × 6.7 × 6.3 in.)
Battery size (L × W × H)	141 × 47 × 28 mm (5.5 × 1.8 × 1.1 in.)
Battery charger size (L × W × H)	158 × 122 × 25 mm (6.2 × 4.8 × 1.0 in.)
Tripod mounting	UNC ¼"-20
Housing material	Aluminum, magnesium
Grip material	TPE thermoplastic elastomers

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Battery charger</li> <li>• Battery, 2 ea.</li> <li>• FLIR Tools download card</li> <li>• FLIR VideoReport PC software CD-ROM</li> <li>• Hard transport case</li> <li>• HDMI-DVI cable</li> <li>• HDMI-HDMI cable</li> <li>• Lens cap (2 ea.)</li> <li>• Lens cap (mounted on lens)</li> <li>• Memory card</li> <li>• Power supply, incl. multi-plugs</li> <li>• Printed documentation</li> <li>• Shoulder strap</li> <li>• USB cable</li> <li>• User documentation CD-ROM</li> <li>• Wi-Fi USB micro adapter (depending on CE and FCC regulations regarding wireless equipment for your country)</li> </ul>
Packaging, weight	
Packaging, size	400 × 190 × 510 mm (15.7 × 7.5 × 20.1 in.)

**Supplies & accessories:**

- T197388; IR lens, 6° with case for GF300, GF309, GF320, GF346.
- T198267; IR lens, 24° with case for GF335, GF346
- T198298; IR lens, 14.5° with case for GF335, GF346

**P/N: 59801-0102**

© 2015, FLIR Systems, Inc.  
#59801-0102; r. 24597; en-US

- T197692; Battery charger, incl. power supply with multi plugs
- T910814; Power supply, incl. multi plugs
- T198511; Li-Ion Battery pack 7.4V 33Wh
- T911230ACC; Memory card SDHC 4 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910815ACC; HDMI to HDMI cable 1.5 m
- T910816ACC; HDMI to DVI cable 1.5 m
- T197555; Hard transport case for FLIR GF3xx-Series
- T951387; Wi-Fi USB micro adapter
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- T198585; FLIR VideoReport
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

**P/N: 59802-0102**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 59802-0102  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR GF346 is an infrared camera for optical gas imaging (OGI) that visualizes and pinpoints gas leaks of carbon monoxide (CO) and other harmful gases, without the need to shut down the operation. The portable camera also greatly improves operator safety, by detecting emissions at a safe distance, and helps to protect the environment by tracing leaks of environmentally harmful gases.

CO is an industrial gas with applications in the steel industry and bulk chemicals manufacturing. It is also used for packaging systems for fresh meat and fish.

## Benefits:

- **Improved efficiency:** The FLIR GF346 reduces revenue loss by pinpointing even small gas leaks quickly and efficiently, and from a distance. It also reduces the inspection time by allowing a broad area to be scanned rapidly and without the need to interrupt the industrial process. The wireless connectivity of the camera allows you to connect to smart phones or tablets for the wireless transfer of images or remote control of the camera. The FLIR GF346 can also be used for temperature measurement, which makes it even more useful for predictive maintenance.
- **Increased worker safety:** CO can be toxic to humans when encountered in higher concentrations. OGI allows gas leaks to be detected in a non-contact mode and from a safe distance. This reduces the risk of the user being exposed to invisible and highly toxic gases or explosive chemicals. With a FLIR GF346 gas imaging camera it is easy to scan areas of interest that are difficult to reach with conventional methods. The camera is ergonomically designed, with a bright LCD and tiltable viewfinder, which facilitates its use over a full working day.
- **Protecting the environment:** Several gases, such as CO, have a high global warming potential, and are usually governed by regulations. Even small leaks can be detected and documented using the FLIR GF346 camera.

Detects the following gases: carbon monoxide, nitrous oxide, ketene, ethenone, butyl isocyanide, hexyl isocyanide, cyanogen bromide, acetonitrile, acetyl cyanide, chlorine isocyanate, bromine isocyanate, methyl thiocyanate, ethyl thiocyanate, chlorodimethylsilane, dichloromethylsilane, silane, germane, arsine.

## Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	<15 mK @ +30°C (+86°F)
Field of view (FOV)	24° × 18°
Minimum focus distance	0.3 m (1.0 ft.)
Focal length	23 mm (0.89 in.)
Lens identification	Automatic
F-number	1.5
Focus	Automatic (one touch) or manual (electric or on the lens)
Zoom	1–8× continuous, digital zoom
Digital image enhancement	Noise reduction filter, high sensitivity mode (HSM)

## Detector data

Detector type	Focal plane array (FPA), cooled InSb
Spectral range	Built-in cold band pass filter 4.52–4.67 µm
Detector pitch	30 µm

P/N: 59802-0102

© 2015, FLIR Systems, Inc.  
#59802-0102; r. 24597; en-US

Detector data	
Sensor cooling	Stirling Microcooler (FLIR MC-3)
Detects following gases	Carbon Monoxide, Nitrous Oxide, Ketene, Ethenone, Butyl Isocyanide, Hexyl Isocyanide, Cyanogen Bromide, Acetonitrile, Acetyl Cyanide, Chlorine Isocyanate, Bromine Isocyanate, Methyl Thiocyanate, Ethyl Thiocyanate, Chlorodimethylsilane, Dichloromethylsilane, Silane, Germane, Arsine
Electronics and data rate	
Full frame rate	60 Hz
Image presentation	
Display	Built-in widescreen, 4.3 in. LCD, 800 × 480 pixels
Viewfinder	Built-in, tiltable OLED, 800 × 480 pixels
Automatic image adjustment	Continuous/manual; linear or histogram based
Manual image adjustment	Level/span
Image presentation modes	
Image modes	IR image, visual image, high sensitivity mode (HSM)
Measurement	
Temperature range	−20°C to +300°C (−4°F to +572°F)
Accuracy	±1°C (±1.8°F) or ±1% of reading for temperature range 0°C to +300°C (+32°F to +572°F)
Measurement analysis	
Spotmeter	10
Area	5 boxes with max./min./average
Profile	1 live line (horizontal or vertical)
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Emissivity correction	Variable from 0.01 to 1.0 or selected from editable materials list
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
Measurement corrections	Reflected temperature, distance, atmospheric transmission, humidity, external optics
Set-up	
Menu commands	Level, span Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image
Color palettes	Iron, Gray, Rainbow, Arctic, Lava, Rainbow HC
Set-up commands	1 programmable button, overlay recording mode, local adaptation of units, language, date and time formats

P/N: 59802-0102

© 2015, FLIR Systems, Inc.  
#59802-0102; r. 24597; en-US

Storage of images	
Storage media	Removable SD or SDHC memory card , two card slots
Image storage capacity	> 1200 images (JPEG) with post process capability per GB on memory card
Image storage mode	IR/visual images Visual image can automatically be associated with corresponding IR image
Periodic image storage	Every 10 seconds up to 24 hours
File formats	Standard JPEG, 14 bit measurement data included
Geographic Information System	
GPS	Location data automatically added to every image from built-in GPS
Video recording in camera	
Non-radiometric IR video recording	MPEG4 (up to 60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non-radiometric IR video.
Visual video recording	MPEG4 (25 minutes/clip) to memory card
Video streaming	
Non-radiometric IR video streaming	RTP/MPEG4
Digital camera	
Built-in digital camera	3.2 Mpixels, auto focus, and two video lamps
Laser pointer	
Laser	Activated by dedicated button
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)
USB	
USB	<ul style="list-style-type: none"> <li>USB-A: Connect external USB device</li> <li>USB Mini-B: Data transfer to and from PC</li> </ul>
USB, standard	USB Mini-B: 2.0 high speed
Composite video	
Video out	Digital video output (image)
Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	7.2 V
Battery capacity	4.4 Ah
Battery operating time	> 3 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 95% capacity, charging status indicated by LED's
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
DC operation	10.8 to 16 V DC, polarity protected (proprietary protected)
Power	8.5 W typically
Start-up time	Typically 7 min. @ 25°C (+77°F)

**P/N: 59802-0102**

© 2015, FLIR Systems, Inc.  
#59802-0102; r. 24597; en-US

<b>Environmental data</b>	
Operating temperature range	–20°C to +50°C (–4°F to +122°F)
Storage temperature range	–30°C to +60°C (–22°F to +140°F)
Humidity (operating and storage)	IEC 68-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) (2 cycles)
Directives	<ul style="list-style-type: none"> <li>• 73/23EEC</li> <li>• 2004/108/EC</li> <li>• 2002/95/EC</li> <li>• 2002/96/EC</li> </ul>
EMC	<ul style="list-style-type: none"> <li>• EN61000-6-4 (Emission)</li> <li>• EN61000-6-2 (Immunity)</li> <li>• FCC 47 CFR Part 15 class A (Emission)</li> <li>• EN 61 000-4-8, L5</li> </ul>
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	Power supply: EN/UL/IEC 60950-1

<b>Physical data</b>	
Camera weight, excl. lens and battery	1.94 kg (4.27 lb.)
Camera weight, incl. lens and excl. battery	2.24 kg (4.94 lb.)
Camera weight, incl. lens and battery	2.48 kg (5.47 lb.)
Battery weight	0.24 kg (0.52 lb.)
Camera size, excl. lens (L × W × H)	284 × 169 × 161 mm (11.2 × 6.7 × 6.3 in.)
Cameras size, incl. lens (L × W × H)	306 × 169 × 161 mm (12.0 × 6.7 × 6.3 in.)
Battery size (L × W × H)	141 × 47 × 28 mm (5.5 × 1.8 × 1.1 in.)
Battery charger size (L × W × H)	158 × 122 × 25 mm (6.2 × 4.8 × 1.0 in.)
Tripod mounting	UNC ¼"-20
Housing material	Aluminum, magnesium
Grip material	TPE thermoplastic elastomers

<b>Shipping information</b>	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Battery charger</li> <li>• Battery, 2 ea.</li> <li>• FLIR Tools download card</li> <li>• FLIR VideoReport PC software CD-ROM</li> <li>• Hard transport case</li> <li>• HDMI-DVI cable</li> <li>• HDMI-HDMI cable</li> <li>• Lens cap (mounted on lens)</li> <li>• Memory card</li> <li>• Power supply, incl. multi-plugs</li> <li>• Printed documentation</li> <li>• Shoulder strap</li> <li>• USB cable</li> <li>• User documentation CD-ROM</li> <li>• Wi-Fi USB micro adapter (depending on CE and FCC regulations regarding wireless equipment for your country)</li> </ul>
Packaging, weight	
Packaging, size	400 × 190 × 510 mm (15.7 × 7.5 × 20.1 in.)

**Supplies & accessories:**

- T197692; Battery charger, incl. power supply with multi plugs
- T910814; Power supply, incl. multi plugs
- T198511; Li-Ion Battery pack 7.4V 33Wh
- T911230ACC; Memory card SDHC 4 GB



**P/N: 59802-0102**

© 2015, FLIR Systems, Inc.  
#59802-0102; r. 24597; en-US

- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910815ACC; HDMI to HDMI cable 1.5 m
- T910816ACC; HDMI to DVI cable 1.5 m
- T197555; Hard transport case for FLIR GF3xx-Series
- T951387; Wi-Fi USB micro adapter
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- T198585; FLIR VideoReport
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

# FLIR G300 series

---

**P/N: 71502-0101**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 71502-0101  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR G300 a is a bare infrared camera unit for optical gas imaging (OGI) that visualizes and pinpoints leaks of volatile organic compounds (VOCs), without the need to shut down the operation. The FLIR G300 a is used in industrial settings such as oil refineries, natural gas processing plants, offshore platforms, chemical/petrochemical industries, and biogas and power generation plants.

The camera unit is delivered as a bare unit, and is intended for integration in OEM systems.

## Benefits

- Improved efficiency: The FLIR G300 a reduces revenue loss by pinpointing even small gas leaks quickly and efficiently, and from a distance. It also reduces the inspection time by allowing a broad area to be scanned rapidly and without the need to interrupt the industrial process.
- Increased worker safety: OGI allows gas leaks to be detected in a non-contact mode and from a safe distance. This reduces the risk of the user being exposed to invisible and potentially harmful or explosive chemicals. With a FLIR G300 a gas imaging camera unit it is easy to scan areas of interest that are difficult to reach with conventional methods.
- Protecting the environment: Several VOCs are dangerous to human health or cause harm to the environment, and are usually governed by regulations. Even small leaks can be detected and documented using the FLIR G300 a.

Detects the following gases: benzene, ethanol, ethylbenzene, heptane, hexane, isoprene, methanol, methyl ethyl ketone, MIBK, octane, pentane, 1-pentene, toluene, *m*-xylene, ethane, butane, methane, propane, ethylene, propylene.

## Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	<15 mK @ +30°C (+86°F)
Field of view (FOV)	14.5° × 10.8°
Minimum focus distance	0.5 m (1.64 ft.)
Focal length	38 mm (1.49 in.)
F-number	1.5
Focus	Automatic using FLIR SDK, or manual
Zoom	1–8× continuous, digital zoom
Digital image enhancement	Noise reduction filter, high sensitivity mode (HSM)

## Detector data

Detector type	Focal plane array (FPA), cooled InSb
Spectral range	3.2–3.4 μm
Sensor cooling	Stirling Microcooler (FLIR MC-3)
Detects following gases	Benzene, ethanol, ethylbenzene, heptane, hexane, isoprene, methanol, methyl ethyl ketone, MIBK, octane, pentane, 1-pentene, toluene, <i>m</i> -xylene, ethane, butane, methane, propane, ethylene, propylene

## Electronics and data rate

Full frame rate	60 Hz
-----------------	-------

P/N: 71502-0101

© 2015, FLIR Systems, Inc.  
#71502-0101; r. 24597; en-US

<b>Image presentation</b>	
Automatic image adjustment	Continuous/manual; linear or histogram based
Manual image adjustment	Level/span
<b>Image presentation modes</b>	
Image modes	IR image, high sensitivity mode (HSM)
<b>Temperature ranges</b>	
Temperature range	−20°C to +350°C (−4°F to +662°F)
<b>Video streaming</b>	
Non-radiometric IR video streaming	RTP/MPEG4
<b>Data communication interfaces</b>	
Interfaces	<ul style="list-style-type: none"> <li>HDMI</li> <li>Ethernet</li> </ul>
<b>USB</b>	
USB	Control and image
USB, standard	2.0 High Speed
USB, connector type	USB micro
USB, communication	TCP/IP socket-based, Microsoft RNDIS or/and USB video class
USB, video streaming	640 × 480 pixels at 30 Hz (using USB video class)
USB, image streaming	16-bit 320 × 240 at 30 Hz (using USB video class)
USB, protocols	TCP, UDP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, DHCP
<b>Ethernet</b>	
Ethernet	Control, result and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary
Ethernet, video streaming	640 × 480 pixels at up to 15 Hz MPEG-4, ISO/IEC 14496-1 MPEG-4 ASP@L5
Ethernet, image streaming	16-bit 320 × 240 pixels at up to 10 Hz
Ethernet, protocols	TCP, UDP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, DHCP, MDNS (Bonjour), SMB/CIFS
<b>Composite video</b>	
Video out	Digital video output (image)
<b>Power system</b>	
DC operation	10–28 V DC, polarity protected
Power	<ul style="list-style-type: none"> <li>Max. power cooling down @ 12 V: 13 W</li> <li>Steady state @ 12 V: 9 W</li> </ul>
Start-up time	Typically 7 min. @ 25°C (+77°F)
<b>Environmental data</b>	
Operating temperature range	−20°C to +50°C (−4°F to +122°F)
Storage temperature range	−30°C to +60°C (−22°F to +140°F)
Humidity (operating and storage)	IEC 68-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) (2 cycles)
Directives	<ul style="list-style-type: none"> <li>Low voltage directive: 2006/95/EC</li> <li>EMC: 2004/108/EC</li> <li>RoHS: 2002/95/EC</li> <li>WEEE: 2002/96/EC</li> </ul>

**P/N: 71502-0101**

© 2015, FLIR Systems, Inc.  
#71502-0101; r. 24597; en-US

Environmental data	
EMC	<ul style="list-style-type: none"><li>• EN61000-6-4 (Emission)</li><li>• EN61000-6-2 (Immunity)</li><li>• FCC 47 CFR Part 15 class A (Emission)</li><li>• EN 61 000-4-8, L5</li></ul>
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Physical data	
Weight	1.4 kg (3.1 lb.), incl. 14.5° lens
Cameras size, incl. lens (L x W x H)	242 x 80 x 105 mm (9.5 x 3.1 x 4.1 in.), incl. 14.5° lens
Housing material	Aluminum
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"><li>• Infrared camera</li><li>• Ethernet cable</li><li>• FLIR ThermoVision SDK (license only)</li><li>• FLIR VideoReport CD-ROM</li><li>• Lens cap</li><li>• Power supply</li><li>• Printed documentation</li><li>• USB cable</li><li>• User documentation CD-ROM</li><li>• Video cable</li></ul>
Packaging, weight	
Packaging, size	
EAN-13	7332558008409
UPC-12	845188008758
Country of origin	Sweden

**Supplies & accessories:**

**P/N: 71502-0102**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 71502-0102  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR G300 a is a bare infrared camera unit for optical gas imaging (OGI) that visualizes and pinpoints leaks of volatile organic compounds (VOCs), without the need to shut down the operation. The FLIR G300 a is used in industrial settings such as oil refineries, natural gas processing plants, offshore platforms, chemical/petrochemical industries, and biogas and power generation plants.

The camera unit is delivered as a bare unit, and is intended for integration in OEM systems.

## Benefits

- Improved efficiency: The FLIR G300 a reduces revenue loss by pinpointing even small gas leaks quickly and efficiently, and from a distance. It also reduces the inspection time by allowing a broad area to be scanned rapidly and without the need to interrupt the industrial process.
- Increased worker safety: OGI allows gas leaks to be detected in a non-contact mode and from a safe distance. This reduces the risk of the user being exposed to invisible and potentially harmful or explosive chemicals. With a FLIR G300 a gas imaging camera unit it is easy to scan areas of interest that are difficult to reach with conventional methods.
- Protecting the environment: Several VOCs are dangerous to human health or cause harm to the environment, and are usually governed by regulations. Even small leaks can be detected and documented using the FLIR G300 a.

Detects the following gases: benzene, ethanol, ethylbenzene, heptane, hexane, isoprene, methanol, methyl ethyl ketone, MIBK, octane, pentane, 1-pentene, toluene, *m*-xylene, ethane, butane, methane, propane, ethylene, propylene.

## Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	<15 mK @ +30°C (+86°F)
Field of view (FOV)	24° × 18°
Minimum focus distance	0.3 m (1.0 ft.)
Focal length	23 mm (0.89 in.)
F-number	1.5
Focus	Automatic using FLIR SDK, or manual
Zoom	1–8× continuous, digital zoom
Digital image enhancement	Noise reduction filter, high sensitivity mode (HSM)

## Detector data

Detector type	Focal plane array (FPA), cooled InSb
Spectral range	3.2–3.4 μm
Sensor cooling	Stirling Microcooler (FLIR MC-3)
Detects following gases	Benzene, ethanol, ethylbenzene, heptane, hexane, isoprene, methanol, methyl ethyl ketone, MIBK, octane, pentane, 1-pentene, toluene, <i>m</i> -xylene, ethane, butane, methane, propane, ethylene, propylene

## Electronics and data rate

Full frame rate	60 Hz
-----------------	-------

P/N: 71502-0102

© 2015, FLIR Systems, Inc.  
#71502-0102; r. 24597; en-US

<b>Image presentation</b>	
Automatic image adjustment	Continuous/manual; linear or histogram based
Manual image adjustment	Level/span
<b>Image presentation modes</b>	
Image modes	IR image, high sensitivity mode (HSM)
<b>Temperature ranges</b>	
Temperature range	–20°C to +350°C (–4°F to +662°F)
<b>Video streaming</b>	
Non-radiometric IR video streaming	RTP/MPEG4
<b>Data communication interfaces</b>	
Interfaces	<ul style="list-style-type: none"> <li>HDMI</li> <li>Ethernet</li> </ul>
<b>USB</b>	
USB	Control and image
USB, standard	2.0 High Speed
USB, connector type	USB micro
USB, communication	TCP/IP socket-based, Microsoft RNDIS or/and USB video class
USB, video streaming	640 × 480 pixels at 30 Hz (using USB video class)
USB, image streaming	16-bit 320 × 240 at 30 Hz (using USB video class)
USB, protocols	TCP, UDP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, DHCP
<b>Ethernet</b>	
Ethernet	Control, result and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary
Ethernet, video streaming	640 × 480 pixels at up to 15 Hz MPEG-4, ISO/IEC 14496-1 MPEG-4 ASP@L5
Ethernet, image streaming	16-bit 320 × 240 pixels at up to 10 Hz
Ethernet, protocols	TCP, UDP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, DHCP, MDNS (Bonjour), SMB/CIFS
<b>Composite video</b>	
Video out	Digital video output (image)
<b>Power system</b>	
DC operation	10–28 V DC, polarity protected
Power	<ul style="list-style-type: none"> <li>Max. power cooling down @ 12 V: 13 W</li> <li>Steady state @ 12 V: 9 W</li> </ul>
Start-up time	Typically 7 min. @ 25°C (+77°F)
<b>Environmental data</b>	
Operating temperature range	–20°C to +50°C (–4°F to +122°F)
Storage temperature range	–30°C to +60°C (–22°F to +140°F)
Humidity (operating and storage)	IEC 68-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) (2 cycles)
Directives	<ul style="list-style-type: none"> <li>Low voltage directive: 2006/95/EC</li> <li>EMC: 2004/108/EC</li> <li>RoHS: 2002/95/EC</li> <li>WEEE: 2002/96/EC</li> </ul>

**P/N: 71502-0102**

© 2015, FLIR Systems, Inc.  
#71502-0102; r. 24597; en-US

Environmental data	
EMC	<ul style="list-style-type: none"><li>• EN61000-6-4 (Emission)</li><li>• EN61000-6-2 (Immunity)</li><li>• FCC 47 CFR Part 15 class A (Emission)</li><li>• EN 61 000-4-8, L5</li></ul>
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Physical data	
Weight	1.4 kg (3.1 lb.), incl. 24° lens
Cameras size, incl. lens (L × W × H)	242 × 80 × 105 mm (9.5 × 3.1 × 4.1 in.), incl. 24° lens
Housing material	Aluminum
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"><li>• Infrared camera</li><li>• Ethernet cable</li><li>• FLIR ThermoVision SDK (license only)</li><li>• FLIR VideoReport CD-ROM</li><li>• Lens cap</li><li>• Power supply</li><li>• Printed documentation</li><li>• USB cable</li><li>• User documentation CD-ROM</li><li>• Video cable</li></ul>
Packaging, weight	
Packaging, size	
EAN-13	7332558008416
UPC-12	845188008765
Country of origin	Sweden

**Supplies & accessories:**



**P/N: 65502-0101**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 65502-0101  
Commit: 24652  
Language: en-US  
Modified: 2015-04-10 08:49  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR G300 pt is a pan/tilt infrared camera for optical gas imaging (OGI) that visualizes and pinpoints leaks of volatile organic compounds (VOCs) without the need to shut down the operation. The FLIR G300 pt is used in industrial settings such as oil refineries, natural gas processing plants, offshore platforms, chemical/petrochemical industries, and biogas and power generation plants.

The FLIR G300 pt precision pan/tilt mechanism gives operators accurate directional control while providing fully programmable scan patterns, radar slew-to-cue, and slew-to-alarm functionality.

## Key features

- H.264, MPEG-4, and MJPEG streaming.
- Built-in web server.
- 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.).
- Composite video output.
- Precise pan/tilt mechanism.
- Daylight camera.
- IP66 encapsulation.
- IP control: The FLIR G300 pt can be integrated into any existing TCP/IP network and controlled with a PC.
- Serial control interface: Pelco D or Bosch commands can be used over RS-232, RS-422, or RS-485 to remotely control a FLIR G300 pt camera.
- Multi-camera software: FLIR Sensors Manager allows users to manage and control a FLIR G300 pt in a TCP/IP network.

## Benefits

- Improved efficiency: The FLIR G300 pt reduces revenue loss by pinpointing even small gas leaks quickly and efficiently, and from a distance. It also reduces the inspection time by allowing a broad area to be scanned rapidly and without the need to interrupt the industrial process.
- Increased worker safety: OGI allows gas leaks to be detected in a non-contact mode and from a safe distance. This reduces the risk of the user being exposed to invisible and potentially harmful or explosive chemicals. With a G300 pt gas imaging camera unit it is easy to scan areas of interest that are difficult to reach with conventional methods.
- Protecting the environment: Several VOCs are dangerous to human health or cause harm to the environment, and are usually governed by regulations. Even small leaks can be detected and documented using the FLIR G300 pt.

Detects the following gases: benzene, ethanol, ethylbenzene, heptane, hexane, isoprene, methanol, methyl ethyl ketone, MIBK, octane, pentane, 1-pentene, toluene, *m*-xylene, ethane, butane, methane, propane, ethylene, propylene.

## Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	<15 mK @ +30°C (+86°F)
Field of view (FOV)	14.5° × 10.8°
Minimum focus distance	0.5 m (1.64 ft.)
Focal length	38 mm (1.49 in.)
F-number	1.5
Focus	Automatic using FLIR SDK, or manual
Zoom	1–8× continuous, digital zoom
Digital image enhancement	Noise reduction filter, high sensitivity mode (HSM)

**P/N: 65502-0101**

© 2015, FLIR Systems, Inc.  
#65502-0101; r. 24652; en-US

Detector data	
Detector type	Focal plane array (FPA), cooled InSb
Spectral range	3.2–3.4 $\mu\text{m}$
Sensor cooling	Stirling Microcooler (FLIR MC-3)
Detects following gases	Benzene, ethanol, ethylbenzene, heptane, hexane, isoprene, methanol, methyl ethyl ketone, MIBK, octane, pentane, 1-pentene, toluene, m-xylene, ethane, butane, methane, propane, ethylene, propylene

Imaging and optical data (visual camera)	
Field of view (FOV)	57.8° (H) to 1.7° (H)
Focal length	3.4 mm (wide) to 122.4 mm (tele)
F-number	1.6 to 4.5
Focus	Automatic or manual (built in motor)
Optical Zoom	36× continuous
Electronic Zoom	12× continuous, digital, interpolating

Detector data (visual camera)	
Focal plane array (FPA)	1/4" Exview HAD CCD
Effective pixels	380.000

Technical specification (pan & tilt)	
Azimuth Range	Az velocity 360° continuous, 0.1 to 60°/sec max
Elevation Range	El velocity $\pm 45^\circ$ , 0.1 to 30°/sec. max
Programmable presets	128
Automatic heaters	Clears window from ice. Switched on at +4°C (39°F). Switched off at +15°C (59°F).

Ethernet	
Ethernet	Control, result and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary
Ethernet, video streaming	Two independent channels for each camera - MPEG-4, H.264, or M-JPEG
Ethernet, protocols	TCP, UDP, SNMP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Composite video	
Video out	Composite video output, NTSC compatible
Video, standard	CVBS (SMPTE 170M NTSC)

Power system	
Power	24 VAC (21–30 VAC; 24 VAC: 215 VA max. with heater) or 24 VDC (21–30 VDC; 24 VDC: 200 W max. with heater)

Environmental data	
Operating temperature range	–40°C to +50°C (–40°F to +122°F)
Storage temperature range	–40°C to +60°C (–40°F to +140°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)

**P/N: 65502-0101**

© 2015, FLIR Systems, Inc.  
#65502-0101; r. 24652; en-US

Environmental data	
Directives	<ul style="list-style-type: none"><li>• Low voltage directive: 2006/95/EC</li><li>• EMC: 2004/108/EC</li><li>• RoHS: 2002/95/EC</li><li>• WEEE: 2002/96/EC</li></ul>
EMC	<ul style="list-style-type: none"><li>• EN 61000-6-2 (Immunity)</li><li>• EN 61000-6-3 (Emission)</li><li>• FCC 47 CFR Part 15 Class B (Emission)</li><li>• EN 61 000-4-8, L5</li></ul>
Encapsulation	IP 66 (IEC 60529)
Bump	5 g, 11 ms (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Physical data	
Weight	18.7 kg (41.2 lb.)
Size (L × W × H)	460 × 467 × 326 mm (18.1 × 18.4 × 12.8 in.)
Housing material	Aluminum
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"><li>• Infrared camera</li><li>• Printed documentation</li><li>• Small parts accessory kit</li><li>• ThermoVision System Tools &amp; Utilities CD-ROM</li><li>• User documentation CD-ROM</li></ul>
Packaging, weight	
Packaging, size	670 × 570 × 490 mm (26.4 × 22.4 × 19.3 in.)
EAN-13	7332558008430
UPC-12	845188008789
Country of origin	Sweden

**Supplies & accessories:**

- T911288ACC; Pole mount adapter for wall mount kit

**P/N: 65502-0102**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 65502-0102  
Commit: 24652  
Language: en-US  
Modified: 2015-04-10 08:49  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR G300 pt is a pan/tilt infrared camera for optical gas imaging (OGI) that visualizes and pinpoints leaks of volatile organic compounds (VOCs) without the need to shut down the operation. The FLIR G300 pt is used in industrial settings such as oil refineries, natural gas processing plants, offshore platforms, chemical/petrochemical industries, and biogas and power generation plants.

The FLIR G300 pt precision pan/tilt mechanism gives operators accurate directional control while providing fully programmable scan patterns, radar slew-to-cue, and slew-to-alarm functionality.

## Key features

- H.264, MPEG-4, and MJPEG streaming.
- Built-in web server.
- 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.).
- Composite video output.
- Precise pan/tilt mechanism.
- Daylight camera.
- IP66 encapsulation.
- IP control: The FLIR G300 pt can be integrated into any existing TCP/IP network and controlled with a PC.
- Serial control interface: Pelco D or Bosch commands can be used over RS-232, RS-422, or RS-485 to remotely control a FLIR G300 pt camera.
- Multi-camera software: FLIR Sensors Manager allows users to manage and control a FLIR G300 pt in a TCP/IP network.

## Benefits

- Improved efficiency: The FLIR G300 pt reduces revenue loss by pinpointing even small gas leaks quickly and efficiently, and from a distance. It also reduces the inspection time by allowing a broad area to be scanned rapidly and without the need to interrupt the industrial process.
- Increased worker safety: OGI allows gas leaks to be detected in a non-contact mode and from a safe distance. This reduces the risk of the user being exposed to invisible and potentially harmful or explosive chemicals. With a G300 pt gas imaging camera unit it is easy to scan areas of interest that are difficult to reach with conventional methods.
- Protecting the environment: Several VOCs are dangerous to human health or cause harm to the environment, and are usually governed by regulations. Even small leaks can be detected and documented using the FLIR G300 pt.

Detects the following gases: benzene, ethanol, ethylbenzene, heptane, hexane, isoprene, methanol, methyl ethyl ketone, MIBK, octane, pentane, 1-pentene, toluene, *m*-xylene, ethane, butane, methane, propane, ethylene, propylene.

## Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	<15 mK @ +30°C (+86°F)
Field of view (FOV)	24° × 18°
Minimum focus distance	0.3 m (1.0 ft.)
Focal length	23 mm (0.89 in.)
F-number	1.5
Focus	Automatic using FLIR SDK, or manual
Zoom	1–8× continuous, digital zoom
Digital image enhancement	Noise reduction filter, high sensitivity mode (HSM)

**P/N: 65502-0102**

© 2015, FLIR Systems, Inc.  
#65502-0102; r. 24652; en-US

Detector data	
Detector type	Focal plane array (FPA), cooled InSb
Spectral range	3.2–3.4 $\mu\text{m}$
Sensor cooling	Stirling Microcooler (FLIR MC-3)
Detects following gases	Benzene, ethanol, ethylbenzene, heptane, hexane, isoprene, methanol, methyl ethyl ketone, MIBK, octane, pentane, 1-pentene, toluene, m-xylene, ethane, butane, methane, propane, ethylene, propylene

Imaging and optical data (visual camera)	
Field of view (FOV)	57.8° (H) to 1.7° (H)
Focal length	3.4 mm (wide) to 122.4 mm (tele)
F-number	1.6 to 4.5
Focus	Automatic or manual (built in motor)
Optical Zoom	36 $\times$ continuous
Electronic Zoom	12 $\times$ continuous, digital, interpolating

Detector data (visual camera)	
Focal plane array (FPA)	1/4" Exview HAD CCD
Effective pixels	380.000

Technical specification (pan & tilt)	
Azimuth Range	Az velocity 360° continuous, 0.1 to 60°/sec max
Elevation Range	El velocity +/- 45°, 0.1 to 30°/sec. max
Programmable presets	128
Automatic heaters	Clears window from ice. Switched on at +4°C (39°F). Switched off at +15°C (59°F).

Ethernet	
Ethernet	Control, result and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary
Ethernet, video streaming	Two independent channels for each camera - MPEG-4, H.264, or M-JPEG
Ethernet, protocols	TCP, UDP, SNMP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Composite video	
Video out	Composite video output, NTSC compatible
Video, standard	CVBS (SMPTE 170M NTSC)

Power system	
Power	24 VAC (21–30 VAC; 24 VAC: 215 VA max. with heater) or 24 VDC (21–30 VDC; 24 VDC: 200 W max. with heater)

Environmental data	
Operating temperature range	–40°C to +50°C (–40°F to +122°F)
Storage temperature range	–40°C to +60°C (–40°F to +140°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)

**P/N: 65502-0102**

© 2015, FLIR Systems, Inc.  
#65502-0102; r. 24652; en-US

Environmental data	
Directives	<ul style="list-style-type: none"><li>• Low voltage directive: 2006/95/EC</li><li>• EMC: 2004/108/EC</li><li>• RoHS: 2002/95/EC</li><li>• WEEE: 2002/96/EC</li></ul>
EMC	<ul style="list-style-type: none"><li>• EN 61000-6-2 (Immunity)</li><li>• EN 61000-6-3 (Emission)</li><li>• FCC 47 CFR Part 15 Class B (Emission)</li><li>• EN 61 000-4-8, L5</li></ul>
Encapsulation	IP 66 (IEC 60529)
Bump	5 g, 11 ms (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Physical data	
Weight	18.7 kg (41.2 lb.)
Size (L × W × H)	460 × 467 × 326 mm (18.1 × 18.4 × 12.8 in.)
Housing material	Aluminum
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"><li>• Infrared camera</li><li>• Printed documentation</li><li>• Small parts accessory kit</li><li>• ThermoVision System Tools &amp; Utilities CD-ROM</li><li>• User documentation CD-ROM</li></ul>
Packaging, weight	23.4 kg (51.6 lb.)
Packaging, size	670 × 570 × 490 mm (26.4 × 22.4 × 19.3 in.)
EAN-13	7332558008454
UPC-12	845188008802
Country of origin	Sweden

**Supplies & accessories:**

**P/N: 65501-0101**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 65501-0101  
Commit: 24652  
Language: en-US  
Modified: 2015-04-10 08:49  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR G300pt is a pan/tilt infrared camera for optical gas imaging (OGI) that visualizes and pinpoints leaks of volatile organic compounds (VOCs) without the need to shut down the operation. The FLIR G300pt is used in industrial settings such as oil refineries, natural gas processing plants, offshore platforms, chemical/petrochemical industries, and biogas and power generation plants.

The FLIR G300pt precision pan/tilt mechanism gives operators accurate directional control while providing fully programmable scan patterns, radar slew-to-cue, and slew-to-alarm functionality.

## Key features

- H.264, MPEG-4, and MJPEG streaming.
- Built-in web server.
- 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.).
- Composite video output.
- Precise pan/tilt mechanism.
- Daylight camera.
- IP66 encapsulation.
- IP control: The FLIR G300pt camera can be integrated into any existing TCP/IP network and controlled with a PC.
- Serial control interface: Pelco D or Bosch commands can be used over RS-232, RS-422, or RS-485 to remotely control a FLIR G300pt camera.
- Multi-camera software: FLIR Sensors Manager allows users to manage and control a FLIR G300pt camera in a TCP/IP network.

## Benefits

- Improved efficiency: The FLIR G300pt reduces revenue loss by pinpointing even small gas leaks quickly and efficiently, and from a distance. It also reduces the inspection time by allowing a broad area to be scanned rapidly and without the need to interrupt the industrial process.
- Increased worker safety: OGI allows gas leaks to be detected in a non-contact mode and from a safe distance. This reduces the risk of the user being exposed to invisible and potentially harmful or explosive chemicals. With a FLIR G300pt gas imaging camera it is easy to scan areas of interest that are difficult to reach with conventional methods.
- Protecting the environment: Several VOCs are dangerous to human health or cause harm to the environment, and are usually governed by regulations. Even small leaks can be detected and documented using the FLIR G300pt.

Detects the following gases: benzene, ethanol, ethylbenzene, heptane, hexane, isoprene, methanol, methyl ethyl ketone, MIBK, octane, pentane, 1-pentene, toluene, *m*-xylene, ethane, butane, methane, propane, ethylene, propylene.

## Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	<15 mK @ +30°C (+86°F)
Field of view (FOV)	14.5° × 10.8°
Minimum focus distance	0.5 m (1.64 ft.)
Focal length	38 mm (1.49 in.)
F-number	1.5
Focus	Automatic using FLIR SDK, or manual
Zoom	1–8× continuous, digital zoom
Digital image enhancement	Noise reduction filter, high sensitivity mode (HSM)

P/N: 65501-0101

© 2015, FLIR Systems, Inc.  
#65501-0101; r. 24652; en-US

Detector data	
Detector type	Focal plane array (FPA), cooled InSb
Spectral range	3.2–3.4 $\mu\text{m}$
Sensor cooling	Stirling Microcooler (FLIR MC-3)
Detects following gases	Benzene, ethanol, ethylbenzene, heptane, hexane, isoprene, methanol, methyl ethyl ketone, MIBK, octane, pentane, 1-pentene, toluene, m-xylene, ethane, butane, methane, propane, ethylene, propylene

Imaging and optical data (visual camera)	
Field of view (FOV)	57.8° (H) to 1.7° (H)
Focal length	3.4 mm (wide) to 122.4 mm (tele)
F-number	1.6 to 4.5
Focus	Automatic or manual (built in motor)
Optical Zoom	36× continuous
Electronic Zoom	12× continuous, digital, interpolating

Detector data (visual camera)	
Focal plane array (FPA)	1/4" Exview HAD CCD
Effective pixels	380.000

Technical specification (pan & tilt)	
Azimuth Range	Az velocity 360° continuous, 0.1 to 60°/sec max
Elevation Range	El velocity $\pm 45^\circ$ , 0.1 to 30°/sec. max
Programmable presets	128
Automatic heaters	Clears window from ice. Switched on at +4°C (39°F). Switched off at +15°C (59°F).

Ethernet	
Ethernet	Control, result and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary
Ethernet, video streaming	Two independent channels for each camera - MPEG-4, H.264, or M-JPEG
Ethernet, protocols	TCP, UDP, SNMP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Composite video	
Video out	Composite video output, PAL compatible
Video, standard	CVBS (ITU-R-BT.470 PAL)

Power system	
Power	24 VAC (21-30 VAC; 24 VAC: 215 VA max. with heater) or 24 VDC (21-30 VDC; 24 VDC: 195 W max. with heater).

Environmental data	
Operating temperature range	–40°C to +50°C (–40°F to +122°F)
Storage temperature range	–40°C to +60°C (–40°F to +140°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)



**P/N: 65501-0101**

© 2015, FLIR Systems, Inc.  
#65501-0101; r. 24652; en-US

Environmental data	
Directives	<ul style="list-style-type: none"><li>• Low voltage directive: 2006/95/EC</li><li>• EMC: 2004/108/EC</li><li>• RoHS: 2002/95/EC</li><li>• WEEE: 2002/96/EC</li></ul>
EMC	<ul style="list-style-type: none"><li>• EN 61000-6-2 (Immunity)</li><li>• EN 61000-6-3 (Emission)</li><li>• FCC 47 CFR Part 15 Class B (Emission)</li><li>• EN 61 000-4-8, L5</li></ul>
Encapsulation	IP 66 (IEC 60529)
Bump	5 g, 11 ms (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Physical data	
Weight	18.7 kg (41.2 lb.)
Size (L × W × H)	460 × 467 × 326 mm (18.1 × 18.4 × 12.8 in.)
Housing material	Aluminum
Shipping information	
List of contents	<ul style="list-style-type: none"><li>• Infrared camera</li><li>• Printed documentation</li><li>• Small parts accessory kit</li><li>• ThermoVision System Tools &amp; Utilities CD-ROM</li><li>• User documentation CD-ROM</li></ul>
EAN-13	7332558008423
UPC-12	845188008772
Country of origin	Sweden

**Supplies & accessories:**

## P/N:

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.:  
Commit: 24652  
Language: en-US  
Modified: 2015-04-10 08:49  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The FLIR G300pt is a pan/tilt infrared camera for optical gas imaging (OGI) that visualizes and pinpoints leaks of volatile organic compounds (VOCs) without the need to shut down the operation. The FLIR G300pt is used in industrial settings such as oil refineries, natural gas processing plants, offshore platforms, chemical/petrochemical industries, and biogas and power generation plants.

The FLIR G300pt precision pan/tilt mechanism gives operators accurate directional control while providing fully programmable scan patterns, radar slew-to-cue, and slew-to-alarm functionality.

### Key features

- H.264, MPEG-4, and MJPEG streaming.
- Built-in web server.
- 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.).
- Composite video output.
- Precise pan/tilt mechanism.
- Daylight camera.
- IP66 encapsulation.
- IP control: The FLIR G300pt camera can be integrated into any existing TCP/IP network and controlled with a PC.
- Serial control interface: Pelco D or Bosch commands can be used over RS-232, RS-422, or RS-485 to remotely control a FLIR G300pt camera.
- Multi-camera software: FLIR Sensors Manager allows users to manage and control a FLIR G300pt camera in a TCP/IP network.

### Benefits

- Improved efficiency: The FLIR G300pt reduces revenue loss by pinpointing even small gas leaks quickly and efficiently, and from a distance. It also reduces the inspection time by allowing a broad area to be scanned rapidly and without the need to interrupt the industrial process.
- Increased worker safety: OGI allows gas leaks to be detected in a non-contact mode and from a safe distance. This reduces the risk of the user being exposed to invisible and potentially harmful or explosive chemicals. With a FLIR G300pt gas imaging camera it is easy to scan areas of interest that are difficult to reach with conventional methods.
- Protecting the environment: Several VOCs are dangerous to human health or cause harm to the environment, and are usually governed by regulations. Even small leaks can be detected and documented using the FLIR G300pt.

Detects the following gases: benzene, ethanol, ethylbenzene, heptane, hexane, isoprene, methanol, methyl ethyl ketone, MIBK, octane, pentane, 1-pentene, toluene, *m*-xylene, ethane, butane, methane, propane, ethylene, propylene.

### Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	<15 mK @ +30°C (+86°F)
Field of view (FOV)	24° × 18°
Minimum focus distance	0.3 m (1.0 ft.)
Focal length	23 mm (0.89 in.)
F-number	1.5
Focus	Automatic using FLIR SDK, or manual
Zoom	1–8× continuous, digital zoom
Digital image enhancement	Noise reduction filter, high sensitivity mode (HSM)

**P/N:**

© 2015, FLIR Systems, Inc.  
 #: r. 24652; en-US

Detector data	
Detector type	Focal plane array (FPA), cooled InSb
Spectral range	3.2–3.4 $\mu\text{m}$
Sensor cooling	Stirling Microcooler (FLIR MC-3)
Detects following gases	Benzene, ethanol, ethylbenzene, heptane, hexane, isoprene, methanol, methyl ethyl ketone, MIBK, octane, pentane, 1-pentene, toluene, m-xylene, ethane, butane, methane, propane, ethylene, propylene
Imaging and optical data (visual camera)	
Field of view (FOV)	57.8° (H) to 1.7° (H)
Focal length	3.4 mm (wide) to 122.4 mm (tele)
F-number	1.6 to 4.5
Focus	Automatic or manual (built in motor)
Optical Zoom	36× continuous
Electronic Zoom	12× continuous, digital, interpolating
Detector data (visual camera)	
Focal plane array (FPA)	1/4" Exview HAD CCD
Effective pixels	380.000
Technical specification (pan & tilt)	
Azimuth Range	Az velocity 360° continuous, 0.1 to 60°/sec max
Elevation Range	El velocity $\pm 45^\circ$ , 0.1 to 30°/sec. max
Programmable presets	128
Automatic heaters	Clears window from ice. Switched on at +4°C (39°F). Switched off at +15°C (59°F).
Ethernet	
Ethernet	Control, result and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary
Ethernet, video streaming	Two independent channels for each camera - MPEG-4, H.264, or M-JPEG
Ethernet, protocols	TCP, UDP, SNMP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP
Composite video	
Video out	Composite video output, PAL compatible
Video, standard	CVBS (ITU-R-BT.470 PAL)
Power system	
Power	24 VAC (21-30 VAC; 24 VAC: 215 VA max. with heater) or 24 VDC (21-30 VDC; 24 VDC: 195 W max. with heater).
Environmental data	
Operating temperature range	–40°C to +50°C (–40°F to +122°F)
Storage temperature range	–40°C to +60°C (–40°F to +140°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)

**P/N:**

© 2015, FLIR Systems, Inc.

#; r. 24652; en-US

Environmental data	
Directives	<ul style="list-style-type: none"><li>• Low voltage directive: 2006/95/EC</li><li>• EMC: 2004/108/EC</li><li>• RoHS: 2002/95/EC</li><li>• WEEE: 2002/96/EC</li></ul>
EMC	<ul style="list-style-type: none"><li>• EN 61000-6-2 (Immunity)</li><li>• EN 61000-6-3 (Emission)</li><li>• FCC 47 CFR Part 15 Class B (Emission)</li><li>• EN 61 000-4-8, L5</li></ul>
Encapsulation	IP 66 (IEC 60529)
Bump	5 g, 11 ms (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Physical data	
Weight	18.7 kg (41.2 lb.)
Size (L × W × H)	460 × 467 × 326 mm (18.1 × 18.4 × 12.8 in.)
Housing material	Aluminum
Shipping information	
List of contents	<ul style="list-style-type: none"><li>• Infrared camera</li><li>• Printed documentation</li><li>• Small parts accessory kit</li><li>• ThermoVision System Tools &amp; Utilities CD-ROM</li><li>• User documentation CD-ROM</li></ul>
EAN-13	7332558008447
UPC-12	845188008796
Country of origin	Sweden

**Supplies & accessories:**

# ThermaCAM GasFindIR series

---

**P/N: 24059-250**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 24059-250  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The ThermaCAM GasFindIR Class I Div II is a real-time infrared camera for visualization of gas leaks. It allows you to detect gas leaks quickly and safely, and is capable of rapidly scanning large areas and hundreds of components. The camera is a rugged piece of equipment and is designed specifically for use in harsh industrial environments.

- Infrared camera for real-time visualization of gas leaks.
- Trace leaks to their source.
- Reduce inspection time.
- Perform safer inspections.
- Light-weight, small, and rugged design.
- Very good thermal sensitivity: <35 mK at 30°C (+86°F).

- Allows you to detect methane and other volatile organic compound (VOC) gas leaks.
- Fulfills US NEC Class I, Division II, for hazardous locations.

Detects the following gases: benzene, ethanol, ethylbenzene, heptane, hexane, isoprene, methanol, MEK, MIBK, octane, pentane, 1-pentene, toluene, xylene, butane, ethane, methane, propane, ethylene, propylene.

## Licensing and classification

License information	Fixed (non-removable) lens version of the ThermaCAM™ GasFindIR Class I, Div II requires US Department of Commerce License, except inside US.
Classification	US NEC Class I, Div II for use in hazardous locations

## Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	35 mK @ +30°C (+86°F)
Lens mounting	Fixed (non-removable) lens
Field of view (FOV)	22° × 16°
Minimum focus distance	0.2 m (0.66 ft.)
Focal length	25 mm (0.98 in.)
Spatial resolution (IFOV)	1.2 mrad
F-number	2.3
Image frequency	Max 25 Hz (PAL)
Focus	Manual
Zoom	2× and 4× Digital Zoom

## Detector data

Detector type	Focal plane array (FPA), cooled InSb
Spectral range	3–5 μm
Sensor cooling	Stirling Microcooler (FLIR MC-3)
Well capacity	18 e <sup>6</sup>

**P/N: 24059-250**

© 2015, FLIR Systems, Inc.  
#24059-250; r. 23306; en-US

Electronics and data rate	
Integration type (electronic shutter speed)	Snap shot
Integration time	Selectable: 1–16 ms
Read-out modes	Integrate while read
Dynamic range	12-bit
Full frame rate	50 Hz (PAL)
Scene temperature range (50 Hz/60 Hz)	
High (50 Hz/60 Hz) (power switch setting = 3)	15°C to 65°C (59°F to 149°F)
Medium (50 Hz/60 Hz) (power switch setting = 2)	40°C to 175°C (104°F to 347°F)
Low (50 Hz/60 Hz) (power switch setting = 1)	–15°C to 15°C (5°F to 59°F)
Image presentation	
Interpolation	None
Video output	RS-170 EIA/NTSC or CCIR/PAL composite video
Viewfinder	Built-in viewfinder, 800 × 600, OLED, B/W
External display	Via personal video recorder
Storage of images	
Storage media	Included personal video recorder
File formats	Standard .avi or .asf video format
Video recording in camera	
Video recording type	Recording of video sequences to personal video recorder.
Video streaming	
Streaming type	8-bit analog output
Data communication interfaces	
Serial communication, purpose	Command and control
Serial communication, standard	RS-232
Serial communication, connector type	7-pin Fischer connector
Composite video	
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC) S-video
Video, connector type	BNC (CVBS) 5-pin Fischer connector (S-video)
Power system	
Battery type	NiMH
Battery voltage	6 V
Battery capacity	4.2 Ah
Battery operating time	Approx. 2 hours at +25°C (+77°F) ambient temperature and typical use
Battery note	The battery latch is replaced with a Torx screw on the GasFindIR Class I, Div II.
Charging system	Included battery charger (AC adapter or 12 V from a vehicle)
Power	< 6 W typically
Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)



**P/N: 24059-250**

© 2015, FLIR Systems, Inc.  
#24059-250; r. 23306; en-US

Environmental data	
Humidity (operating and storage)	20–80% (non condensing)
EMC	<ul style="list-style-type: none"><li>• EN 55011:1998 (Emission)</li><li>• EN 61000-4-2:1995 (Electronic Discharge)</li><li>• EN 61000-4-3:1996 (Electromagnetic Field Immunity)</li><li>• EN 61000-4-3:1993 (Magnetic Fields)</li></ul>
Physical data	
Camera weight, incl. lens and excl. battery	1.84 kg (4.05 lb.)
Camera weight, incl. lens and battery	2.20 kg (4.85 lb.)
Battery weight	0.36 kg (0.80 lb)
Camera size (L × W × H)	262 × 158 × 132 mm (10.3 × 6.2 × 5.2 in.)
Tripod mounting	UNC ¼"-20
Housing material	Aluminum
Grip material	Rubber
Shipping information	
List of contents	<ul style="list-style-type: none"><li>• ThermaCAM GasFindIR Camera</li><li>• 25 mm lens cap</li><li>• Optical cleaning kit</li><li>• Neck strap</li><li>• Battery charger, 2 ea.</li><li>• NiMH battery, 3 ea.</li><li>• User's Manual</li><li>• Hard transport case</li><li>• S-Video cable</li><li>• Video cable</li><li>• Personal Video Recorder (PVR) and battery</li><li>• A/V Cable for Personal Video Recorder</li></ul>

**Supplies & accessories:**

- 03198-000; Cable-BNC 6FT
- 14730-000; Cable-RS-232 Remote
- 20981-500; Cable S-Video GasFindIR
- 21466-000; A/V Cable for Archos PVR
- 21465-000; Personal Video Recorder
- 17619-200; DR 11 NiMH Battery
- 3301011; Hard Transport Case
- 09289-200; Optical Cleaning Kit
- 17151-002; Battery Charger (NiMH)



**P/N: 24059-201**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 24059-201  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The ThermaCAM GasFindIR Class I Div II is a real-time infrared camera for visualization of gas leaks. It allows you to detect gas leaks quickly and safely, and is capable of rapidly scanning large areas and hundreds of components. The camera is a rugged piece of equipment and is designed specifically for use in harsh industrial environments.

- Infrared camera for real-time visualization of gas leaks.
- Trace leaks to their source.
- Reduce inspection time.
- Perform safer inspections.
- Light-weight, small, and rugged design.
- Very good thermal sensitivity: <35 mK at 30°C (86°F).

- Allows you to detect methane and other volatile organic compound (VOC) gas leaks.
- Fulfills US NEC Class I, Division II, for hazardous locations.

Detects the following gases: benzene, ethanol, ethylbenzene, heptane, hexane, isoprene, methanol, MEK, MIBK, octane, pentane, 1-pentene, toluene, xylene, butane, ethane, methane, propane, ethylene, propylene.

## Licensing and classification

License information	Fixed (non-removable) lens version of the ThermaCAM™ GasFindIR Class I, Div II requires US Department of Commerce License, except inside US.
Classification	US NEC Class I, Div II for use in hazardous locations

## Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	35 mK @ +30°C (+86°F)
Lens mounting	Fixed (non-removable) lens
Field of view (FOV)	22° × 16°
Minimum focus distance	0.2 m (0.66 ft.)
Focal length	25 mm (0.98 in.)
Spatial resolution (IFOV)	1.2 mrad
F-number	2.3
Image frequency	Max 30 Hz (NTSC)
Focus	Manual
Zoom	2× and 4× Digital Zoom

## Detector data

Detector type	Focal plane array (FPA), cooled InSb
Spectral range	3–5 μm
Sensor cooling	Stirling Microcooler (FLIR MC-3)
Well capacity	18 e <sup>+</sup>

**P/N: 24059-201**

© 2015, FLIR Systems, Inc.  
#24059-201; r. 23306; en-US

<b>Electronics and data rate</b>	
Integration type (electronic shutter speed)	Snap shot
Integration time	Selectable: 1–16 ms
Read-out modes	Integrate while read
Dynamic range	12-bit
Full frame rate	60 Hz (NTSC)
<b>Scene temperature range (50 Hz/60 Hz)</b>	
High (50 Hz/60 Hz) (power switch setting = 3)	15°C to 65°C (59°F to 149°F)
Medium (50 Hz/60 Hz) (power switch setting = 2)	40°C to 175°C (104°F to 347°F)
Low (50 Hz/60 Hz) (power switch setting = 1)	–15°C to 15°C (5°F to 59°F)
<b>Image presentation</b>	
Interpolation	None
Video output	RS-170 EIA/NTSC or CCIR/PAL composite video
Viewfinder	Built-in viewfinder, 800 × 600, OLED, B/W
External display	Via personal video recorder
<b>Storage of images</b>	
Storage media	Included personal video recorder
File formats	Standard .avi or .asf video format
<b>Video recording in camera</b>	
Video recording type	Recording of video sequences to personal video recorder.
<b>Video streaming</b>	
Streaming type	8-bit analog output
<b>Data communication interfaces</b>	
Serial communication, purpose	Command and control
Serial communication, standard	RS-232
Serial communication, connector type	7-pin Fischer connector
<b>Composite video</b>	
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC) S-video
Video, connector type	BNC (CVBS) 5-pin Fischer connector (S-video)
<b>Power system</b>	
Battery type	NiMH
Battery voltage	6 V
Battery capacity	4.2 Ah
Battery operating time	Approx. 2 hours at +25°C (+77°F) ambient temperature and typical use
Battery note	The battery latch is replaced with a Torx screw on the GasFindIR Class I, Div II.
Charging system	Included battery charger (AC adapter or 12 V from a vehicle)
Power	< 6 W typically
<b>Environmental data</b>	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)

**P/N: 24059-201**

© 2015, FLIR Systems, Inc.  
#24059-201; r. 23306; en-US

Environmental data	
Humidity (operating and storage)	20–80% (non condensing)
EMC	<ul style="list-style-type: none"> <li>• EN 55011:1998 (Emission)</li> <li>• EN 61000-4-2:1995 (Electronic Discharge)</li> <li>• EN 61000-4-3:1996 (Electromagnetic Field Immunity)</li> <li>• EN 61000-4-3:1993 (Magnetic Fields)</li> </ul>
Physical data	
Camera weight, incl. lens and excl. battery	1.84 kg (4.05 lb.)
Camera weight, incl. lens and battery	2.20 kg (4.85 lb.)
Battery weight	0.36 kg (0.80 lb)
Camera size (L × W × H)	262 × 158 × 132 mm (10.3 × 6.2 × 5.2 in.)
Tripod mounting	UNC ¼"-20
Housing material	Aluminum
Grip material	Rubber
Shipping information	
List of contents	<ul style="list-style-type: none"> <li>• ThermaCAM GasFindIR Camera</li> <li>• 25 mm lens cap</li> <li>• Optical cleaning kit</li> <li>• Neck strap</li> <li>• Battery charger, 2 ea.</li> <li>• NiMH battery, 3 ea.</li> <li>• User's Manual</li> <li>• Hard transport case</li> <li>• S-Video cable</li> <li>• Video cable</li> <li>• Personal Video Recorder (PVR) and battery</li> <li>• A/V Cable for Personal Video Recorder</li> </ul>

**Supplies & accessories:**

- 03198-000; Cable-BNC 6FT
- 14730-000; Cable-RS-232 Remote
- 20981-500; Cable S-Video GasFindIR
- 21466-000; A/V Cable for Archos PVR
- 21465-000; Personal Video Recorder
- 17619-200; DR 11 NiMH Battery
- 3301011; Hard Transport Case
- 09289-200; Optical Cleaning Kit
- 17151-002; Battery Charger (NiMH)

**P/N: 24059-251**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 24059-251  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
The ThermaCAM GasFindIR Class I Div II is a real-time infrared camera for visualization of gas leaks. It allows you to detect gas leaks quickly and safely, and is capable of rapidly scanning large areas and hundreds of components. The camera is a rugged piece of equipment and is designed specifically for use in harsh industrial environments.	
<ul style="list-style-type: none"> <li>Infrared camera for real-time visualization of gas leaks.</li> <li>Trace leaks to their source.</li> <li>Reduce inspection time.</li> <li>Perform safer inspections.</li> <li>Light-weight, small, and rugged design.</li> <li>Very good thermal sensitivity: &lt;35 mK at 30°C (86°F).</li> </ul>	
<ul style="list-style-type: none"> <li>Allows you to detect methane and other volatile organic compound (VOC) gas leaks.</li> <li>Fulfills US NEC Class I, Division II, for hazardous locations.</li> </ul>	
Detects the following gases: benzene, ethanol, ethylbenzene, heptane, hexane, isoprene, methanol, MEK, MIBK, octane, pentane, 1-pentene, toluene, xylene, butane, ethane, methane, propane, ethylene, propylene.	
Licensing and classification	
License information	Interchangeable lens version of the ThermaCAM™ GasFindIR Class I, Div II requires US Department of State License and will be subject to limitations on resale, except inside US. Allow a minimum of 90 days after application submittal for approval.
Classification	US NEC Class I, Div II for use in hazardous locations
Imaging and optical data	
IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	35 mK @ +30°C (+86°F)
Lens mounting	Interchangeable lens
Field of view (FOV)	22° × 16°
Minimum focus distance	0.2 m (0.66 ft.)
Focal length	25 mm (0.98 in.)
Spatial resolution (IFOV)	1.2 mrad
F-number	2.3
Image frequency	Max 25 Hz (PAL)
Focus	Manual
Zoom	2× and 4× Digital Zoom
Detector data	
Detector type	Focal plane array (FPA), cooled InSb
Spectral range	3–5 μm

**P/N: 24059-251**

© 2015, FLIR Systems, Inc.  
#24059-251; r. 23306; en-US

<b>Detector data</b>	
Sensor cooling	Stirling Microcooler (FLIR MC-3)
Well capacity	18 e <sup>-6</sup>
<b>Electronics and data rate</b>	
Integration type (electronic shutter speed)	Snap shot
Integration time	Selectable: 1–16 ms
Read-out modes	Integrate while read
Dynamic range	12-bit
Full frame rate	50 Hz (PAL)
<b>Scene temperature range (50 Hz/60 Hz)</b>	
High (50 Hz/60 Hz) (power switch setting = 3)	15°C to 65°C (59°F to 149°F)
Medium (50 Hz/60 Hz) (power switch setting = 2)	40°C to 175°C (104°F to 347°F)
Low (50 Hz/60 Hz) (power switch setting = 1)	–15°C to 15°C (5°F to 59°F)
<b>Image presentation</b>	
Interpolation	None
Video output	RS-170 EIA/NTSC or CCIR/PAL composite video
Viewfinder	Built-in viewfinder, 800 × 600, OLED, B/W
External display	Via personal video recorder
<b>Storage of images</b>	
Storage media	Included personal video recorder
File formats	Standard .avi or .asf video format
<b>Video recording in camera</b>	
Video recording type	Recording of video sequences to personal video recorder.
<b>Video streaming</b>	
Streaming type	8-bit analog output
<b>Data communication interfaces</b>	
Serial communication, purpose	Command and control
Serial communication, standard	RS-232
Serial communication, connector type	7-pin Fischer connector
<b>Composite video</b>	
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC) S-video
Video, connector type	BNC (CVBS) 5-pin Fischer connector (S-video)
<b>Power system</b>	
Battery type	NiMH
Battery voltage	6 V
Battery capacity	4.2 Ah
Battery operating time	Approx. 2 hours at +25°C (+77°F) ambient temperature and typical use
Battery note	The battery latch is replaced with a Torx screw on the GasFindIR Class I, Div II.
Charging system	Included battery charger (AC adapter or 12 V from a vehicle)
Power	< 6 W typically

**P/N: 24059-251**

© 2015, FLIR Systems, Inc.  
#24059-251; r. 23306; en-US

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	20–80% (non condensing)
EMC	<ul style="list-style-type: none"> <li>• EN 55011:1998 (Emission)</li> <li>• EN 61000-4-2:1995 (Electronic Discharge)</li> <li>• EN 61000-4-3:1996 (Electromagnetic Field Immunity)</li> <li>• EN 61000-4-3:1993 (Magnetic Fields)</li> </ul>
Physical data	
Camera weight, incl. lens and excl. battery	1.84 kg (4.05 lb.)
Camera weight, incl. lens and battery	2.20 kg (4.85 lb.)
Battery weight	0.36 kg (0.80 lb)
Camera size (L × W × H)	262 × 158 × 132 mm (10.3 × 6.2 × 5.2 in.)
Tripod mounting	UNC ¼"-20
Housing material	Aluminum
Grip material	Rubber
Shipping information	
List of contents	<ul style="list-style-type: none"> <li>• ThermaCAM GasFindIR Camera</li> <li>• 25 mm lens cap</li> <li>• Optical cleaning kit</li> <li>• Neck strap</li> <li>• Battery charger, 2 ea.</li> <li>• NiMH battery, 3 ea.</li> <li>• User's Manual</li> <li>• Hard transport case</li> <li>• S-Video cable</li> <li>• Video cable</li> <li>• Personal Video Recorder (PVR) and battery</li> <li>• A/V Cable for Personal Video Recorder</li> </ul>

**Supplies & accessories:**

- 20887-200; 25 mm Lens
- 20888-200; 50 mm Lens
- 20889-200; 100 mm Lens
- 24016-000; Lens Hood for 25mm Lens
- 24016-001; Lens Hood for 50mm Lens
- 03198-000; Cable-BNC 6FT
- 14730-000; Cable-RS-232 Remote
- 20981-500; Cable S-Video GasFindIR
- 21466-000; A/V Cable for Archos PVR
- 21465-000; Personal Video Recorder
- 17619-200; DR 11 NiMH Battery
- 3301011; Hard Transport Case
- 09289-200; Optical Cleaning Kit
- 17151-002; Battery Charger (NiMH)

## P/N: 24059-200

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 24059-200  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
The ThermaCAM GasFindIR Class I Div II is a real-time infrared camera for visualization of gas leaks. It allows you to detect gas leaks quickly and safely, and is capable of rapidly scanning large areas and hundreds of components. The camera is a rugged piece of equipment and is designed specifically for use in harsh industrial environments.	
<ul style="list-style-type: none"> <li>Infrared camera for real-time visualization of gas leaks.</li> <li>Trace leaks to their source.</li> <li>Reduce inspection time.</li> <li>Perform safer inspections.</li> <li>Light-weight, small, and rugged design.</li> <li>Very good thermal sensitivity: &lt;35 mK at 30°C (86°F).</li> </ul>	
<ul style="list-style-type: none"> <li>Allows you to detect methane and other volatile organic compound (VOC) gas leaks.</li> <li>Fulfills US NEC Class I, Division II, for hazardous locations.</li> </ul>	
Detects the following gases: benzene, ethanol, ethylbenzene, heptane, hexane, isoprene, methanol, MEK, MIBK, octane, pentane, 1-pentene, toluene, xylene, butane, ethane, methane, propane, ethylene, propylene.	
Licensing and classification	
License information	Interchangeable lens version of the ThermaCAM™ GasFindIR Class I, Div II requires US Department of State License and will be subject to limitations on resale, except inside US. Allow a minimum of 90 days after application submittal for approval.
Classification	US NEC Class I, Div II for use in hazardous locations
Imaging and optical data	
IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	35 mK @ +30°C (+86°F)
Lens mounting	Interchangeable lens
Field of view (FOV)	22° × 16°
Minimum focus distance	0.2 m (0.66 ft.)
Focal length	25 mm (0.98 in.)
Spatial resolution (IFOV)	1.2 mrad
F-number	2.3
Image frequency	Max 30 Hz (NTSC)
Focus	Manual
Zoom	2x and 4x Digital Zoom
Detector data	
Detector type	Focal plane array (FPA), cooled InSb
Spectral range	3–5 µm

**P/N: 24059-200**

© 2015, FLIR Systems, Inc.  
#24059-200; r. 23306; en-US

<b>Detector data</b>	
Sensor cooling	Stirling Microcooler (FLIR MC-3)
Well capacity	18 e <sup>-6</sup>
<b>Electronics and data rate</b>	
Integration type (electronic shutter speed)	Snap shot
Integration time	Selectable: 1–16 ms
Read-out modes	Integrate while read
Dynamic range	12-bit
Full frame rate	60 Hz (NTSC)
<b>Scene temperature range (50 Hz/60 Hz)</b>	
High (50 Hz/60 Hz) (power switch setting = 3)	15°C to 65°C (59°F to 149°F)
Medium (50 Hz/60 Hz) (power switch setting = 2)	40°C to 175°C (104°F to 347°F)
Low (50 Hz/60 Hz) (power switch setting = 1)	–15°C to 15°C (5°F to 59°F)
<b>Image presentation</b>	
Interpolation	None
Video output	RS-170 EIA/NTSC or CCIR/PAL composite video
Viewfinder	Built-in viewfinder, 800 × 600, OLED, B/W
External display	Via personal video recorder
<b>Storage of images</b>	
Storage media	Included personal video recorder
File formats	Standard .avi or .asf video format
<b>Video recording in camera</b>	
Video recording type	Recording of video sequences to personal video recorder.
<b>Video streaming</b>	
Streaming type	8-bit analog output
<b>Data communication interfaces</b>	
Serial communication, purpose	Command and control
Serial communication, standard	RS-232
Serial communication, connector type	7-pin Fischer connector
<b>Composite video</b>	
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC) S-video
Video, connector type	BNC (CVBS) 5-pin Fischer connector (S-video)
<b>Power system</b>	
Battery type	NiMH
Battery voltage	6 V
Battery capacity	4.2 Ah
Battery operating time	Approx. 2 hours at +25°C (+77°F) ambient temperature and typical use
Battery note	The battery latch is replaced with a Torx screw on the GasFindIR Class I, Div II.
Charging system	Included battery charger (AC adapter or 12 V from a vehicle)
Power	< 6 W typically



**P/N: 24059-200**

© 2015, FLIR Systems, Inc.  
#24059-200; r. 23306; en-US

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	20–80% (non condensing)
EMC	<ul style="list-style-type: none"> <li>• EN 55011:1998 (Emission)</li> <li>• EN 61000-4-2:1995 (Electronic Discharge)</li> <li>• EN 61000-4-3:1996 (Electromagnetic Field Immunity)</li> <li>• EN 61000-4-3:1993 (Magnetic Fields)</li> </ul>
Physical data	
Camera weight, incl. lens and excl. battery	1.84 kg (4.05 lb.)
Camera weight, incl. lens and battery	2.20 kg (4.85 lb.)
Battery weight	0.36 kg (0.80 lb)
Camera size (L × W × H)	262 × 158 × 132 mm (10.3 × 6.2 × 5.2 in.)
Tripod mounting	UNC ¼"-20
Housing material	Aluminum
Grip material	Rubber
Shipping information	
List of contents	<ul style="list-style-type: none"> <li>• ThermaCAM GasFindIR Camera</li> <li>• 25 mm lens cap</li> <li>• Optical cleaning kit</li> <li>• Neck strap</li> <li>• Battery charger, 2 ea.</li> <li>• NiMH battery, 3 ea.</li> <li>• User's Manual</li> <li>• Hard transport case</li> <li>• S-Video cable</li> <li>• Video cable</li> <li>• Personal Video Recorder (PVR) and battery</li> <li>• A/V Cable for Personal Video Recorder</li> </ul>

**Supplies & accessories:**

- 20887-200; 25 mm Lens
- 20888-200; 50 mm Lens
- 20889-200; 100 mm Lens
- 24016-000; Lens Hood for 25mm Lens
- 24016-001; Lens Hood for 50mm Lens
- 03198-000; Cable-BNC 6FT
- 14730-000; Cable-RS-232 Remote
- 20981-500; Cable S-Video GasFindIR
- 21466-000; A/V Cable for Archos PVR
- 21465-000; Personal Video Recorder
- 17619-200; DR 11 NiMH Battery
- 3301011; Hard Transport Case
- 09289-200; Optical Cleaning Kit
- 17151-002; Battery Charger (NiMH)

# FLIR Kxx series

---

## P/N: 72201-0106

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 72201-0106  
Commit: 25381  
Language: en-US  
Modified: 2015-05-06 13:57  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The FLIR K45 is a robust and reliable infrared camera designed to perform under extremely severe conditions. The FLIR K45 has an intuitive interface with a design that makes it easy to control even with a gloved hand. The crisp and clear image helps you to navigate through smoke and to make quick and accurate decisions.

#### Benefits:

- **Robust and reliable:** The FLIR K45 is designed to meet tough operating conditions. It can withstand a drop from 2 m (6.5 ft.) onto a concrete floor, is water resistant to IP67, and is fully operational up to +85°C (+185°F), or +260°C (+500°F) for 5 min.
- **Clear and crisp thermal images:** The maintenance-free uncooled microbolometer sensor produces clear and detail-rich images of 240 × 180 pixels which have been further improved with FSX, a digital image processing enhancement technique. Thermal images are presented on a large, bright 4" display, helping you to navigate and to make quick and accurate decisions.
- **Easy-to-use—also in a gloved firefighter's hand:** An intuitive and simple user interface allows you to focus on the job. The FLIR K series can be controlled by just three large buttons on top of the unit. Ideal for a gloved firefighter's hand.

### Imaging and optical data

IR resolution	240 × 180 pixels
Thermal sensitivity/NETD	< 40 mK @ +30°C (+86°F)
Field of view (FOV)	51° × 38°
Depth of field	0.84 m to infinity (33 in. to infinity)
Focal length	9 mm (0.35 in.)
Spatial resolution (IFOV)	3.6 mrad
F-number	1.25
Image frequency	60 Hz
Focus	Fixed
Zoom	2× digital zoom

**P/N: 72201-0106**

© 2015, FLIR Systems, Inc.  
#72201-0106; r. 25381; en-US

<b>Detector data</b>	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 $\mu\text{m}$
Pitch	25 $\mu\text{m}$
<b>Image presentation</b>	
Display	4 in. LCD, 320 × 240 pixels, backlit
Auto range	Yes, selectable on/off using FLIR Tools
Contrast optimization	Digital image enhancement using FSX
<b>Image presentation modes</b>	
Image modes	<ul style="list-style-type: none"> <li>IR image <ul style="list-style-type: none"> <li>TI Basic fire-fighting mode</li> <li>Black-and-white fire-fighting mode</li> <li>Fire mode</li> <li>Search-and-rescue mode</li> <li>Heat detection mode</li> </ul> </li> <li>Thumbnail gallery</li> </ul>
<b>Measurement</b>	
Object temperature range	<ul style="list-style-type: none"> <li>–20°C to +150°C (–4°F to +302°F)</li> <li>0°C to +650°C (+32°F to +1202°F)</li> </ul>
Accuracy	±4°C (±7.2°F) or ±4% of reading, for ambient temperature 10°C to 35°C (+50°F to 95°F)
<b>Measurement analysis</b>	
Spotmeter	1
Automatic hot detection	Heat detection mode (the hottest 2% of the of scene is colorized)
Isotherm	Yes
<b>Set-up</b>	
Set-up commands	Local adaptation of units, date and time formats
Languages	English
<b>Storage of images</b>	
Image storage	Standard JPEG
Storage media	Internal flash memory
Image storage capacity	200 images
Image storage mode	IR only
File formats	Standard JPEG
<b>Image annotations</b>	
Report generation	Separate software (FLIR Tools)
<b>Video streaming</b>	
Non-radiometric IR video streaming	Uncompressed colorized video using USB
<b>USB</b>	
USB	USB Mini-B
<b>Compatibility</b>	
Compatible with FLIR software	FLIR Tools
<b>Data communication interfaces</b>	
Interfaces	<ul style="list-style-type: none"> <li>Update from PC and Mac devices</li> <li>Data transfer to and from PC</li> </ul>

**P/N: 72201-0106**

© 2015, FLIR Systems, Inc.  
#72201-0106; r. 25381; en-US

<b>Power system</b>	
Battery type	Li Ion
Battery voltage	3.6 V
Battery capacity	4.4 Ah, at +20°C to +25°C (+68°F to +77°F)
Battery operating time	Approx. 4 hours at +25°C (+77°F) ambient temperature and typical use
Charging system	<ul style="list-style-type: none"> <li>Battery is charged inside the camera</li> <li>2-bay charger</li> <li>Optional In-truck charger</li> </ul>
Charging time	2 h to 85% capacity, charging status indicated by LEDs
Charging temperature	0°C to +45°C (+32°F to +113°F)
Power management	Automatic shutdown and sleep mode
Start-up time from sleep mode	< 4 s.
Start-up time	< 17 s. (IR image, no GUI)
<b>Environmental data</b>	
Operating temperature range	<ul style="list-style-type: none"> <li>-20°C to +85°C (-4°F to +185°F)</li> <li>+150°C (+302°F): 15 min.</li> <li>+260°C (+500°F): 5 min.</li> </ul>
Storage temperature range	-40°C to +85°C (-40°F to +185°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
Relative humidity	95% relative humidity +25°C to +40°C (+77°F to +104°F) non-condensing
Directives	Designed to meet NFPA 1801:2013 specification: <ul style="list-style-type: none"> <li>Vibration</li> <li>Impact acceleration resistance</li> <li>Corrosion</li> <li>Viewing surface abrasion</li> <li>Heat resistance</li> <li>Heat and flame</li> <li>Product label durability</li> </ul>
EMC	<ul style="list-style-type: none"> <li>EN 61000-6-2:2005 (Immunity)</li> <li>EN 61000-6-3: 2011 (Emission)</li> <li>FCC 47 CFR Part 15 B (Emission)</li> </ul>
Magnetic fields	EN 61 000-4-8, Test level 5 for continuous field (severe industrial environment)
Encapsulation	IP 67 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Drop	2 m (6.6 ft.) on concrete floor (IEC 60068-2-31)
Safety (power supply)	CE/EN/UL/CSA/PSE 60950-1
<b>Physical data</b>	
Camera weight, incl. battery	1.1 ±0.05 kg (2.4 ±0.1 lb.)
Battery weight	0.152 kg (0.3 lb.)
Camera size (L × W × H)	120 × 125 × 280 mm (4.7 × 4.9 × 11 in.)
Tripod mounting	UNC ¼"-20 (adapter needed)
Material	<ul style="list-style-type: none"> <li>PPSU</li> <li>Silicon rubber</li> <li>Aluminium, cast</li> <li>Flame-resistant magnesium alloy</li> </ul>

**P/N: 72201-0106**

© 2015, FLIR Systems, Inc.  
#72201-0106; r. 25381; en-US

Shipping information	
List of contents	<ul style="list-style-type: none"><li>• Infrared camera</li><li>• Battery (2 ea.)</li><li>• Battery charger</li><li>• Hard transport case</li><li>• Lanyard strap</li><li>• Neck strap</li><li>• Power supply</li><li>• Printed documentation</li><li>• Retractable lanyard</li><li>• Tripod adapter</li><li>• USB cable</li><li>• User documentation CD-ROM</li></ul>
Packaging, weight	5.7 kg (12.6 lb.)
Packaging, size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in.)
EAN-13	4743254002005
UPC-12	845188010898
Country of origin	Estonia

**Supplies and accessories:**

- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T198125; Battery charger, incl. power supply with multi plugs (Exx, Kxx)
- T198322; In-truck charger
- T198310ACC; Li-Ion Battery pack 3.6 V 16 Wh
- T127724ACC; Neck strap
- T127722ACC; Retractable lanyard
- T198416ACC; Strap lanyard
- T198457ACC; Tripod Adapter, Kxx
- T198441ACC; Transport case Kxx

**P/N: 72201-0206**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 72201-0206  
Commit: 25380  
Language: en-US  
Modified: 2015-05-06 13:56  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR K55 is a robust and reliable infrared camera designed to perform under extremely severe conditions. The FLIR K55 has an intuitive interface with a design that makes it easy to control even with a gloved hand. The crisp and clear image helps you to navigate through smoke and to make quick and accurate decisions.

### Benefits:

- **Robust and reliable:** The FLIR K55 is designed to meet tough operating conditions. It can withstand a drop from 2 m (6.5 ft.) onto a concrete floor, is water resistant to IP67, and is fully operational up to +85°C (+185°F), or +260°C (+500°F) for 5 min.
- **Clear and crisp thermal images:** The maintenance-free uncooled microbolometer sensor produces clear and detail-rich images of 320 × 240 pixels which have been further improved with FSX, a digital image processing enhancement technique. Thermal images are presented on a large, bright 4" display, helping you to navigate and to make quick and accurate decisions.
- **Easy-to-use—also in a gloved firefighter's hand:** An intuitive and simple user interface allows you to focus on the job. The FLIR K series can be controlled by just three large buttons on top of the unit. Ideal for a gloved firefighter's hand.
- **Recording**

## Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 30 mK @ +30°C (+86°F)
Field of view (FOV)	51° × 38°
Depth of field	0.84 m to infinity (33 in. to infinity)
Focal length	9 mm (0.35 in.)
Spatial resolution (IFOV)	2.8 mrad
F-number	1.25
Image frequency	60 Hz
Focus	Fixed
Zoom	2× digital zoom

**P/N: 72201-0206**

© 2015, FLIR Systems, Inc.  
#72201-0206; r. 25380; en-US

<b>Detector data</b>	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 µm
Pitch	25 µm
<b>Image presentation</b>	
Display	4 in. LCD, 320 × 240 pixels, backlit
Auto range	Yes, selectable on/off using FLIR Tools
Contrast optimization	Digital image enhancement using FSX
<b>Image presentation modes</b>	
Image modes	<ul style="list-style-type: none"> <li>IR image <ul style="list-style-type: none"> <li>TI Basic fire-fighting mode</li> <li>Black-and-white fire-fighting mode</li> <li>Fire mode</li> <li>Search-and-rescue mode</li> <li>Heat detection mode</li> </ul> </li> <li>Thumbnail gallery</li> </ul>
<b>Measurement</b>	
Object temperature range	<ul style="list-style-type: none"> <li>–20°C to +150°C (–4°F to +302°F)</li> <li>0°C to +650°C (+32°F to +1202°F)</li> </ul>
Accuracy	±4°C (±7.2°F) or ±4% of reading, for ambient temperature 10°C to 35°C (+50°F to 95°F)
<b>Measurement analysis</b>	
Spotmeter	1
Automatic hot detection	Heat detection mode (the hottest 2% of the of scene is colorized)
Isotherm	Yes
<b>Set-up</b>	
Set-up commands	Local adaptation of units, date and time formats
Languages	English
<b>Storage of images</b>	
Image storage	Standard JPEG
Storage media	Internal flash memory
Image storage capacity	200 images
Image storage mode	IR only
File formats	Standard JPEG
<b>Image annotations</b>	
Report generation	Separate software (FLIR Tools)
<b>Video recording in camera</b>	
Non-radiometric IR video recording	MPEG-4 to internal flash memory
<b>Video streaming</b>	
Non-radiometric IR video streaming	Uncompressed colorized video using USB
<b>USB</b>	
USB	USB Mini-B
<b>Compatibility</b>	
Compatible with FLIR software	FLIR Tools
<b>Data communication interfaces</b>	
Interfaces	<ul style="list-style-type: none"> <li>Update from PC and Mac devices</li> <li>Data transfer to and from PC</li> </ul>



**P/N: 72201-0206**

© 2015, FLIR Systems, Inc.  
#72201-0206; r. 25380; en-US

Power system	
Battery type	Li Ion
Battery voltage	3.6 V
Battery capacity	4.4 Ah, at +20°C to +25°C (+68°F to +77°F)
Battery operating time	Approx. 4 hours at +25°C (+77°F) ambient temperature and typical use
Charging system	<ul style="list-style-type: none"> <li>Battery is charged inside the camera</li> <li>2-bay charger</li> <li>Optional In-truck charger</li> </ul>
Charging time	2 h to 85% capacity, charging status indicated by LEDs
Charging temperature	0°C to +45°C (+32°F to +113°F)
Power management	Automatic shutdown and sleep mode
Start-up time from sleep mode	< 4 s.
Start-up time	< 17 s. (IR image, no GUI)
Environmental data	
Operating temperature range	<ul style="list-style-type: none"> <li>-20°C to +85°C (-4°F to +185°F)</li> <li>+150°C (+302°F): 15 min.</li> <li>+260°C (+500°F): 5 min.</li> </ul>
Storage temperature range	-40°C to +85°C (-40°F to +185°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
Relative humidity	95% relative humidity +25°C to +40°C (+77°F to +104°F) non-condensing
Directives	Designed to meet NFPA 1801:2013 specification: <ul style="list-style-type: none"> <li>Vibration</li> <li>Impact acceleration resistance</li> <li>Corrosion</li> <li>Viewing surface abrasion</li> <li>Heat resistance</li> <li>Heat and flame</li> <li>Product label durability</li> </ul>
EMC	<ul style="list-style-type: none"> <li>EN 61000-6-2:2005 (Immunity)</li> <li>EN 61000-6-3: 2011 (Emission)</li> <li>FCC 47 CFR Part 15 B (Emission)</li> </ul>
Magnetic fields	EN 61 000-4-8, Test level 5 for continuous field (severe industrial environment)
Encapsulation	IP 67 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Drop	2 m (6.6 ft.) on concrete floor (IEC 60068-2-31)
Safety (power supply)	CE/EN/UL/CSA/PSE 60950-1
Physical data	
Camera weight, incl. battery	1.1 ±0.05 kg (2.4 ±0.1 lb.)
Battery weight	0.152 kg (0.3 lb.)
Camera size (L × W × H)	120 × 125 × 280 mm (4.7 × 4.9 × 11 in.)
Tripod mounting	UNC ¼"-20 (adapter needed)
Material	<ul style="list-style-type: none"> <li>PPSU</li> <li>Silicon rubber</li> <li>Aluminium, cast</li> <li>Flame-resistant magnesium alloy</li> </ul>

**P/N: 72201-0206**

© 2015, FLIR Systems, Inc.  
#72201-0206; r. 25380; en-US

Shipping information	
List of contents	<ul style="list-style-type: none"><li>• Infrared camera</li><li>• Battery (2 ea.)</li><li>• Battery charger</li><li>• Hard transport case</li><li>• Lanyard strap</li><li>• Neck strap</li><li>• Power supply</li><li>• Printed documentation</li><li>• Retractable lanyard</li><li>• Tripod adapter</li><li>• USB cable</li><li>• User documentation CD-ROM</li></ul>
Packaging, weight	5.7 kg (12.6 lb.)
Packaging, size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in.)
EAN-13	4743254002012
UPC-12	845188010904
Country of origin	Estonia

**Supplies and accessories:**

- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T198125; Battery charger, incl. power supply with multi plugs (Exx, Kxx)
- T198322; In-truck charger
- T198310ACC; Li-Ion Battery pack 3.6 V 16 Wh
- T127724ACC; Neck strap
- T127722ACC; Retractable lanyard
- T198416ACC; Strap lanyard
- T198457ACC; Tripod Adapter, Kxx
- T198441ACC; Transport case Kxx

# FLIR Cx series

---

## P/N: 72001-0101

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 72001-0101  
Commit: 25045  
Language: en-US  
Modified: 2015-04-28 10:17  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Imaging and optical data	
NETD	100 mK
Field of view	41° × 31°
Minimum focus distance	<ul style="list-style-type: none"> <li>Thermal: 0.15 m (0.49 ft.)</li> <li>MSX: 1.0 m (3.3 ft.)</li> </ul>
Focal length	1.54 mm (0.061 in.)
Spatial resolution (IFOV)	11 mrad
F-number	1.1
Image frequency	9 Hz
Focus	Focus free
Detector data	
Focal Plane Array	Uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm
IR sensor size	80 × 60
Image presentation	
Display (color)	<ul style="list-style-type: none"> <li>3.0 in.</li> <li>320 × 240 pixels</li> </ul>
Display, aspect ratio	4:3
Auto orientation	Yes
Touch screen	Yes, capacitive
Image adjustment (alignment calibration)	Yes
Image presentation modes	
Infrared image	Yes
Visual image	Yes
MSX	Yes
Gallery	Yes
Measurement	
Object temperature range	–10°C to +150°C (14 to 302°F)
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.

P/N: 72001-0101

© 2015, FLIR Systems, Inc.  
#72001-0101; r. 25045; en-US

Measurement analysis	
Spotmeter	On/off
Emissivity correction	Yes; matt/semi-matt/semi-glossy + custom value
Measurements correction	<ul style="list-style-type: none"> <li>Emissivity</li> <li>Reflected apparent temperature</li> </ul>
Set-up	
Color palettes	<ul style="list-style-type: none"> <li>Iron</li> <li>Rainbow</li> <li>Rainbow HC</li> <li>Gray</li> </ul>
Set-up commands	Local adaptation of units, language, date and time formats
Languages	Arabic, Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, Simpl. Chinese, Spanish, Swedish, Trad. Chinese, Turkish.
Lamp	
Output power	0.85 W
Field of view	60°
Service functions	
Camera software update	Using FLIR Tools
Storage of images	
Storage media	Internal memory store at least 500 sets of images
Image file format	<ul style="list-style-type: none"> <li>Standard JPEG</li> <li>14-bit measurement data included</li> </ul>
Video streaming	
Non-radiometric IR video streaming	Yes
Visual video streaming	Yes
Digital camera	
Digital camera	640 × 480 pixels
Digital camera, focus	Fixed focus
Data communication interfaces	
USB, connector type	USB Micro-B: Data transfer to and from PC
USB, standard	USB 2.0
Power system	
Battery type	Rechargeable Li-ion polymer battery
Battery voltage	3.7 V
Battery operating time	2 h
Charging system	Charged inside the camera
Charging time	1.5 h
External power operation	<ul style="list-style-type: none"> <li>AC adapter, 90–260 VAC input</li> <li>5 V output to camera</li> </ul>
Power management	Automatic shut-down
Environmental data	
Operating temperature range	–10°C to +50°C (14 to 122°F)
Storage temperature range	–40°C to +70°C (–40 to 158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles

P/N: 72001-0101

© 2015, FLIR Systems, Inc.  
#72001-0101; r. 25045; en-US

Environmental data	
Relative humidity	95% relative humidity +25°C to +40°C (+77°F to +104°F) non condensing
EMC	<ul style="list-style-type: none"> <li>• WEEE 2012/19/EC</li> <li>• RoHs 2011/65/EC</li> <li>• C-Tick</li> <li>• EN 61000-6-3</li> <li>• EN 61000-6-2</li> <li>• FCC 47 CFR Part 15 Class B</li> </ul>
Magnetic fields	EN 61000-4-8
Battery regulations	UL 1642
Encapsulation	Camera housing and lens: IP 40 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Physical data	
Weight (incl. Battery)	0.13 kg (0.29 lb.)
Size (L × W × H)	125 × 80 × 24 mm (4.9 × 3.1 × 0.94 in.)
Tripod mounting	No
Housing material	<ul style="list-style-type: none"> <li>• PC and ABS, partially covered with TPE</li> <li>• Aluminum</li> </ul>
Color	Black and gray
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera</li> <li>• Lanyard</li> <li>• Power supply/charger with EU, UK, US, CN and Australian plugs</li> <li>• Printed getting started guide</li> <li>• USB memory stick with documentation</li> <li>• USB cable</li> </ul>
Packaging, weight	0.53 kg (1.17 lb.)
Packaging, size	175 × 115 × 75 mm (6.9 × 4.5 × 3.0 in.)
EAN-13	4743254001961
UPC-12	845188010614
Country of origin	Estonia

## P/N: 72002-0202

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 72002-0202  
Commit: 25458  
Language: en-US  
Modified: 2015-05-07 16:41  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### NOTE

Only educational institutions are eligible for purchasing this product.

Imaging and optical data	
NETD	100 mK
Field of view	41° × 31°
Minimum focus distance	<ul style="list-style-type: none"> <li>Thermal: 0.15 m (0.49 ft.)</li> <li>MSX: 1.0 m (3.3 ft.)</li> </ul>
Focal length	1.54 mm (0.061 in.)
Spatial resolution (IFOV)	11 mrad
F-number	1.1
Image frequency	9 Hz
Focus	Focus free
Detector data	
Focal Plane Array	Uncooled microbolometer
Spectral range	7.5–14 µm
Detector pitch	17 µm
IR sensor size	80 × 60
Image presentation	
Display (color)	<ul style="list-style-type: none"> <li>3.0 in.</li> <li>320 × 240 pixels</li> </ul>
Display, aspect ratio	4:3
Auto orientation	Yes
Touch screen	Yes, capacitive
Image adjustment (alignment calibration)	Yes
Image presentation modes	
Infrared image	Yes
Visual image	Yes
MSX	Yes
Gallery	Yes
Measurement	
Object temperature range	–10°C to +150°C (14 to 302°F)
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.

**P/N: 72002-0202**

© 2015, FLIR Systems, Inc.  
#72002-0202; r. 25458; en-US

Measurement analysis	
Spotmeter	On/off
Emissivity correction	Yes; matt/semi-matt/semi-glossy + custom value
Measurements correction	<ul style="list-style-type: none"> <li>Emissivity</li> <li>Reflected apparent temperature</li> </ul>
Set-up	
Color palettes	<ul style="list-style-type: none"> <li>Iron</li> <li>Rainbow</li> <li>Rainbow HC</li> <li>Gray</li> </ul>
Set-up commands	Local adaptation of units, language, date and time formats
Languages	Arabic, Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, Simpl. Chinese, Spanish, Swedish, Trad. Chinese, Turkish.
Lamp	
Output power	0.85 W
Field of view	60°
Service functions	
Camera software update	Using FLIR Tools
Storage of images	
Storage media	Internal memory store at least 500 sets of images
Image file format	<ul style="list-style-type: none"> <li>Standard JPEG</li> <li>14-bit measurement data included</li> </ul>
Video streaming	
Non-radiometric IR video streaming	Yes
Visual video streaming	Yes
Digital camera	
Digital camera	640 × 480 pixels
Digital camera, focus	Fixed focus
Data communication interfaces	
USB, connector type	USB Micro-B: Data transfer to and from PC
USB, standard	USB 2.0
Power system	
Battery type	Rechargeable Li-ion polymer battery
Battery voltage	3.7 V
Battery operating time	2 h
Charging system	Charged inside the camera
Charging time	1.5 h
External power operation	<ul style="list-style-type: none"> <li>AC adapter, 90–260 VAC input</li> <li>5 V output to camera</li> </ul>
Power management	Automatic shut-down
Environmental data	
Operating temperature range	–10°C to +50°C (14 to 122°F)
Storage temperature range	–40°C to +70°C (–40 to 158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles



**P/N: 72002-0202**

© 2015, FLIR Systems, Inc.  
#72002-0202; r. 25458; en-US

Environmental data	
Relative humidity	95% relative humidity +25°C to +40°C (+77°F to +104°F) non condensing
EMC	<ul style="list-style-type: none"> <li>• WEEE 2012/19/EC</li> <li>• RoHs 2011/65/EC</li> <li>• C-Tick</li> <li>• EN 61000-6-3</li> <li>• EN 61000-6-2</li> <li>• FCC 47 CFR Part 15 Class B</li> </ul>
Magnetic fields	EN 61000-4-8
Battery regulations	UL 1642
Encapsulation	Camera housing and lens: IP 40 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Physical data	
Weight (incl. Battery)	0.13 kg (0.29 lb.)
Size (L × W × H)	125 × 80 × 24 mm (4.9 × 3.1 × 0.94 in.)
Tripod mounting	No
Housing material	<ul style="list-style-type: none"> <li>• PC and ABS, partially covered with TPE</li> <li>• Aluminum</li> </ul>
Color	Black and gray
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera</li> <li>• Lanyard</li> <li>• Power supply/charger with EU, UK, US, CN and Australian plugs</li> <li>• Printed getting started guide</li> <li>• USB memory stick with documentation</li> <li>• USB cable</li> </ul>
Packaging, weight	0.53 kg (1.17 lb.)
Packaging, size	175 × 115 × 75 mm (6.9 × 4.5 × 3.0 in.)
EAN-13	4743254002067
UPC-12	845188011376
Country of origin	Estonia

# FLIR Ax5 series

---

**P/N: 62319-0101**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 62319-0101  
Commit: 24659  
Language: en-US  
Modified: 2015-04-10 13:34  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR A15 has features and functions that make it the natural choice for anyone who uses PC software to solve problems and for whom 160 × 128 pixel resolution is sufficient.

Among its main features are GigE Vision and GenICam compliance, which makes it plug-and-play when used with software packages such as IMAQ Vision and Halcon.

## Key features:

- Very affordable.
- Compact (40 mm × 43 mm × 106 mm).
- GigE Vision and GenICam compliant.
- GigE Vision lockable connector.
- PoE (power over Ethernet).
- 8-bit 160 × 128 pixel images streamed at 60 Hz, signal linear.
- 14-bit 160 × 128 pixel images streamed at 60 Hz, signal and temperature linear.
- High frame rates (60 Hz).
- Synchronization between cameras possible.
- 1x+1x GPIO.
- Compliant with any software that supports GenICam, including National Instruments IMAQ Vision, Stemmers Common Vision Blox, and COGNEX Vision Pro.

## Typical applications:

- Automation and thermal machine vision.
- Entry level "high-speed" R&D.

## Imaging and optical data

IR resolution	160 × 128 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	25° × 19°
Focal length	19 mm (0.75 in.)
Spatial resolution (IFOV)	2.63 mrad
F-number	1.25
Image frequency	60 Hz
Focus	Fixed

## Detector data

Detector type	Focal plane array (FPA), uncooled VOX microbolometer
Spectral range	7.5–13 μm
Detector pitch	50 μm
Detector time constant	Typical 12 ms

## Measurement


Object temperature range	<ul style="list-style-type: none"> <li>• -25 to +135°C (-13 to 275°F)</li> <li>• -40 to +550°C (-40 to +1022°F)</li> </ul>
Accuracy	±5°C (±9°F) or ±5% of reading

P/N: 62319-0101

© 2015, FLIR Systems, Inc.  
#62319-0101; r. 24659; en-US

Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.5 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters

Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	GigE Vision ver. 1.2 Client API GenICam compliant
Ethernet, image streaming	8-bit monochrome @ 60 Hz <ul style="list-style-type: none"> <li>Signal linear/ DDE</li> <li>Automatic/ Manual</li> <li>Flip H&amp;V</li> </ul> 14-bit 160 × 128 pixels @ 60 Hz <ul style="list-style-type: none"> <li>Signal linear/ DDE</li> <li>Temperature linear</li> </ul> GigE Vision and GenICam compatible
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0 Power
Ethernet, protocols	TCP, UDP, ICMP, IGMP, DHCP, GigEVision

Digital input/output	
Digital input, purpose	General purpose
Digital input	1× opto-isolated, "0" <2, "1" = 2–12 VDC. <div>  <b>NOTE</b>  Maximum input 12 VDC. If the input is above 12 VDC without a resistor in series there is a risk of damaging the input. If the input is 24 VDC use a 1.2 kΩ resistor in series. In that case "1" = 3–24 VDC. </div>
Digital output, purpose	General purpose output to ext. device (programmatically set)
Digital output	1× opto-isolated, 2–40 VDC, max. 185 mA
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	2–40 VDC, max. 200 mA
Digital I/O, connector type	12-pole M12 connector (shared with Digital synchronization and External power)
Synchronization in, purpose	Frame synchronization in to control camera
Synchronization in	1×, non-isolated
Synchronization in, type	LVC Buffer @3.3V, "0" <0.8 V, "1">2.0 V.
Synchronization out, purpose	Frame synchronization out to control another FLIR Ax5 camera
Synchronization out	1×, non-isolated

**P/N: 62319-0101**

© 2015, FLIR Systems, Inc.  
#62319-0101; r. 24659; en-US

<b>Digital input/output</b>	
Synchronization out, type	LVC Buffer @ 3.3V, "0"=24 MA max, "1"= -24 mA max.
Digital synchronization, connector type	12-pole M12 connector (shared with Digital I/O and External power)

<b>Power system</b>	
External power operation	12/24 VDC, < 3.5 W nominal < 6.0 W absolute max.
External power, connector type	12-pole M12 connector (shared with Digital I/O and Digital Synchronization )
Voltage	Allowed range 10–30 VDC

<b>Environmental data</b>	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> <li>• EN 61000-6-2 (Immunity)</li> <li>• EN 61000-6-3 (Emission)</li> <li>• FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 40 (IEC 60529) with base support mounted
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

<b>Physical data</b>	
Weight	0.200 kg (0.44 lb.)
Camera size (L × W × H)	106 × 40 × 43 mm (4.2 × 1.6 × 1.7 in.)
Tripod mounting	UNC ¼"-20 (on three sides)
Base mounting	4 × M3 thread mounting holes (bottom)
Housing material	Magnesium and aluminum

<b>Shipping information</b>	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• FLIR Tools download card</li> <li>• Focus adjustment tool</li> <li>• Printed documentation</li> <li>• User documentation CD-ROM</li> </ul>
Packaging, weight	
Packaging, size	295 × 200 × 105 mm (11.6 × 7.9 × 4.1 in.)
EAN-13	7332558003992 4743254000605 (Estonia plant)
UPC-12	845188003555
Country of origin	Sweden

**Supplies & accessories:**

- T951004ACC; Ethernet cable CAT-6, 2m/6.6 ft.
- T198349; Base support
- T198348; Cable kit Mains (UK,EU,US)
- T911112; PoE injector
- T198392; Table stand kit
- T911183; Gigabit PoE injector 16 W, with multi-plugs
- T127605ACC; Cable M12 Pigtail
- T127606ACC; Cable M12 Sync
- T198342ACC; Focus adjustment tool
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)



FLIR A15 f=19 mm

---

**P/N: 62319-0101**

© 2015, FLIR Systems, Inc.  
#62319-0101; r. 24659; en-US

- DSW-10000; FLIR IR Camera Player

**P/N: 64319-0101**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 64319-0101  
Commit: 25040  
Language: en-US  
Modified: 2015-04-28 09:21  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR A15 has features and functions that make it the natural choice for anyone who uses PC software to solve problems and for whom 160 × 128 pixel resolution is sufficient.

Among its main features are GigE Vision and GenICam compliance, which makes it plug-and-play when used with software packages such as IMAQ Vision and Halcon.

## Key features:

- Very affordable.
- Compact (40 mm × 43 mm × 106 mm).
- GigE Vision and GenICam compliant.
- GigE Vision lockable connector.
- PoE (power over Ethernet).
- 8-bit 160 × 128 pixel images streamed at 7.5 Hz, signal linear.
- 14-bit 160 × 128 pixel images streamed at 7.5 Hz, signal and temperature linear.
- Synchronization between cameras possible.
- 1x+1x GPIO.
- Compliant with any software that supports GenICam, including National Instruments IMAQ Vision, Stemmers Common Vision Blox, and COGNEX Vision Pro.

## Typical applications:

- Automation and thermal machine vision.
- Entry level "high-speed" R&D.

## Imaging and optical data

IR resolution	160 × 128 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	25° × 19°
Focal length	19 mm (0.75 in.)
Spatial resolution (IFOV)	2.63 mrad
F-number	1.25
Image frequency	7.5 Hz
Focus	Fixed

## Detector data


Detector type	Focal plane array (FPA), uncooled VOX microbolometer
Spectral range	7.5–13 μm
Detector pitch	50 μm
Detector time constant	Typical 12 ms

## Measurement

Object temperature range	<ul style="list-style-type: none"> <li>• -25 to +135°C (-13 to 275°F)</li> <li>• -40 to +550°C (-40 to +1022°F)</li> </ul>
Accuracy	±5°C (±9°F) or ±5% of reading

P/N: 64319-0101

© 2015, FLIR Systems, Inc.  
#64319-0101; r. 25040; en-US

Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.5 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters
Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	GigE Vision ver. 1.2 Client API GenICam compliant
Ethernet, image streaming	8-bit monochrome @ 7.5 Hz <ul style="list-style-type: none"> <li>Signal linear/ DDE</li> <li>Automatic/ Manual</li> <li>Flip H&amp;V</li> </ul> 14-bit 160 × 128 pixels @ 7.5 Hz <ul style="list-style-type: none"> <li>Signal linear/ DDE</li> <li>Temperature linear</li> </ul> GigE Vision and GenICam compatible
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0 Power
Ethernet, protocols	TCP, UDP, ICMP, IGMP, DHCP, GigEVision
Digital input/output	
Digital input, purpose	General purpose
Digital input	1× opto-isolated, "0" <2, "1" = 2–12 VDC. <div>  <b>NOTE</b>  Maximum input 12 VDC. If the input is above 12 VDC without a resistor in series there is a risk of damaging the input. If the input is 24 VDC use a 1.2 kΩ resistor in series. In that case "1" = 3–24 VDC. </div>
Digital output, purpose	General purpose output to ext. device (programmatically set)
Digital output	1× opto-isolated, 2–40 VDC, max. 185 mA
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	2–40 VDC, max. 200 mA
Digital I/O, connector type	12-pole M12 connector (shared with Digital synchronization and External power)
Synchronization in, purpose	Frame synchronization in to control camera
Synchronization in	1×, non-isolated
Synchronization in, type	LVC Buffer @3.3V, "0" <0.8 V, "1">2.0 V.
Synchronization out, purpose	Frame synchronization out to control another FLIR Ax5 camera
Synchronization out	1×, non-isolated



**P/N: 64319-0101**

© 2015, FLIR Systems, Inc.  
#64319-0101; r. 25040; en-US

<b>Digital input/output</b>	
Synchronization out, type	LVC Buffer @ 3.3V, "0"=24 MA max, "1"= -24 mA max.
Digital synchronization, connector type	12-pole M12 connector (shared with Digital I/O and External power)

<b>Power system</b>	
External power operation	12/24 VDC, < 3.5 W nominal < 6.0 W absolute max.
External power, connector type	12-pole M12 connector (shared with Digital I/O and Digital Synchronization )
Voltage	Allowed range 10–30 VDC

<b>Environmental data</b>	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> <li>• EN 61000-6-2 (Immunity)</li> <li>• EN 61000-6-3 (Emission)</li> <li>• FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 40 (IEC 60529) with base support mounted
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

<b>Physical data</b>	
Weight	0.200 kg (0.44 lb.)
Camera size (L x W x H)	106 x 40 x 43 mm (4.2 x 1.6 x 1.7 in.)
Tripod mounting	UNC ¼"-20 (on three sides)
Base mounting	4 x M3 thread mounting holes (bottom)
Housing material	Magnesium and aluminum

<b>Shipping information</b>	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• FLIR Tools download card</li> <li>• Focus adjustment tool</li> <li>• Printed documentation</li> <li>• User documentation CD-ROM</li> </ul>
Packaging, weight	
Packaging, size	295 x 200 x 105 mm (11.6 x 7.9 x 4.1 in.)
EAN-13	7332558005668
UPC-12	845188005870
Country of origin	Sweden

**Supplies & accessories:**

- T951004ACC; Ethernet cable CAT-6, 2m/6.6 ft.
- T198349; Base support
- T198348; Cable kit Mains (UK,EU,US)
- T911112; PoE injector
- T198392; Table stand kit
- T911183; Gigabit PoE injector 16 W, with multi-plugs
- T127605ACC; Cable M12 Pigtail
- T127606ACC; Cable M12 Sync
- T198342ACC; Focus adjustment tool
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player

**P/N: 62309-0101**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 62309-0101  
Commit: 25040  
Language: en-US  
Modified: 2015-04-28 09:21  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR A15 has features and functions that make it the natural choice for anyone who uses PC software to solve problems and for whom 160 × 128 pixel resolution is sufficient.

Among its main features are GigE Vision and GenICam compliance, which makes it plug-and-play when used with software packages such as IMAQ Vision and Halcon.

## Key features:

- Very affordable.
- Compact (40 mm × 43 mm × 106 mm).
- GigE Vision and GenICam compliant.
- GigE Vision lockable connector.
- PoE (power over Ethernet).
- 8-bit 160 × 128 pixel images streamed at 60 Hz, signal linear.
- 14-bit 160 × 128 pixel images streamed at 60 Hz, signal and temperature linear.
- High frame rates (60 Hz).
- Synchronization between cameras possible.
- 1x+1x GPIO.
- Compliant with any software that supports GenICam, including National Instruments IMAQ Vision, Stemmers Common Vision Blox, and COGNEX Vision Pro.

## Typical applications:

- Automation and thermal machine vision.
- Entry level "high-speed" R&D.

## Imaging and optical data

IR resolution	160 × 128 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	48° × 39°
Focal length	9 mm (0.35 in.)
Spatial resolution (IFOV)	5.56 mrad
F-number	1.25
Image frequency	60 Hz
Focus	Fixed

## Detector data

Detector type	Focal plane array (FPA), uncooled VOX microbolometer
Spectral range	7.5–13 μm
Detector pitch	50 μm
Detector time constant	Typical 12 ms

## Measurement


Object temperature range	<ul style="list-style-type: none"> <li>• -25 to +135°C (-13 to 275°F)</li> <li>• -40 to +550°C (-40 to +1022°F)</li> </ul>
Accuracy	±5°C (±9°F) or ±5% of reading

P/N: 62309-0101

© 2015, FLIR Systems, Inc.  
#62309-0101; r. 25040; en-US

Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.5 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters

Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	GigE Vision ver. 1.2 Client API GenICam compliant
Ethernet, image streaming	8-bit monochrome @ 60 Hz <ul style="list-style-type: none"> <li>Signal linear/ DDE</li> <li>Automatic/ Manual</li> <li>Flip H&amp;V</li> </ul> 14-bit 160 × 128 pixels @ 60 Hz <ul style="list-style-type: none"> <li>Signal linear/ DDE</li> <li>Temperature linear</li> </ul> GigE Vision and GenICam compatible
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0 Power
Ethernet, protocols	TCP, UDP, ICMP, IGMP, DHCP, GigEVision

Digital input/output	
Digital input, purpose	General purpose
Digital input	1× opto-isolated, "0" <2, "1" = 2–12 VDC. <div>  <b>NOTE</b>  Maximum input 12 VDC. If the input is above 12 VDC without a resistor in series there is a risk of damaging the input. If the input is 24 VDC use a 1.2 kΩ resistor in series. In that case "1" = 3–24 VDC. </div>
Digital output, purpose	General purpose output to ext. device (programmatically set)
Digital output	1× opto-isolated, 2–40 VDC, max. 185 mA
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	2–40 VDC, max. 200 mA
Digital I/O, connector type	12-pole M12 connector (shared with Digital synchronization and External power)
Synchronization in, purpose	Frame synchronization in to control camera
Synchronization in	1×, non-isolated
Synchronization in, type	LVC Buffer @3.3V, "0" <0.8 V, "1">2.0 V.
Synchronization out, purpose	Frame synchronization out to control another FLIR Ax5 camera
Synchronization out	1×, non-isolated

**P/N: 62309-0101**

© 2015, FLIR Systems, Inc.  
#62309-0101; r. 25040; en-US

<b>Digital input/output</b>	
Synchronization out, type	LVC Buffer @ 3.3V, "0"=24 MA max, "1"= -24 mA max.
Digital synchronization, connector type	12-pole M12 connector (shared with Digital I/O and External power)

<b>Power system</b>	
External power operation	12/24 VDC, < 3.5 W nominal < 6.0 W absolute max.
External power, connector type	12-pole M12 connector (shared with Digital I/O and Digital Synchronization )
Voltage	Allowed range 10–30 VDC

<b>Environmental data</b>	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> <li>• EN 61000-6-2 (Immunity)</li> <li>• EN 61000-6-3 (Emission)</li> <li>• FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 40 (IEC 60529) with base support mounted
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

<b>Physical data</b>	
Weight	0.200 kg (0.44 lb.)
Camera size (L × W × H)	106 × 40 × 43 mm (4.2 × 1.6 × 1.7 in.)
Tripod mounting	UNC ¼"-20 (on three sides)
Base mounting	4 × M3 thread mounting holes (bottom)
Housing material	Magnesium and aluminum

<b>Shipping information</b>	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• FLIR Tools download card</li> <li>• Focus adjustment tool</li> <li>• Printed documentation</li> <li>• User documentation CD-ROM</li> </ul>
Packaging, weight	
Packaging, size	295 × 200 × 105 mm (11.6 × 7.9 × 4.1 in.)
EAN-13	7332558003978 4743254000599 (Estonia plant)
UPC-12	845188003548
Country of origin	Sweden

**Supplies & accessories:**

- T951004ACC; Ethernet cable CAT-6, 2m/6.6 ft.
- T198349; Base support
- T198348; Cable kit Mains (UK,EU,US)
- T911112; PoE injector
- T198392; Table stand kit
- T911183; Gigabit PoE injector 16 W, with multi-plugs
- T127605ACC; Cable M12 Pigtail
- T127606ACC; Cable M12 Sync
- T198342ACC; Focus adjustment tool
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)



FLIR A15 f=9 mm

---

**P/N: 62309-0101**

© 2015, FLIR Systems, Inc.

#62309-0101; r. 25040; en-US

- DSW-10000; FLIR IR Camera Player

**P/N: 64309-0101**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 64309-0101  
Commit: 25040  
Language: en-US  
Modified: 2015-04-28 09:21  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR A15 has features and functions that make it the natural choice for anyone who uses PC software to solve problems and for whom 160 × 128 pixel resolution is sufficient.

Among its main features are GigE Vision and GenICam compliance, which makes it plug-and-play when used with software packages such as IMAQ Vision and Halcon.

## Key features:

- Very affordable.
- Compact (40 mm × 43 mm × 106 mm).
- GigE Vision and GenICam compliant.
- GigE Vision lockable connector.
- PoE (power over Ethernet).
- 8-bit 160 × 128 pixel images streamed at 7.5 Hz, signal linear.
- 14-bit 160 × 128 pixel images streamed at 7.5 Hz, signal and temperature linear.
- Synchronization between cameras possible.
- 1x+1x GPIO.
- Compliant with any software that supports GenICam, including National Instruments IMAQ Vision, Stemmers Common Vision Blox, and COGNEX Vision Pro.

## Typical applications:

- Automation and thermal machine vision.
- Entry level "high-speed" R&D.

## Imaging and optical data

IR resolution	160 × 128 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	48° × 39°
Focal length	9 mm (0.35 in.)
Spatial resolution (IFOV)	5.56 mrad
F-number	1.25
Image frequency	7.5 Hz
Focus	Fixed

## Detector data

Detector type	Focal plane array (FPA), uncooled VOX microbolometer
Spectral range	7.5–13 μm
Detector pitch	50 μm
Detector time constant	Typical 12 ms

## Measurement


Object temperature range	<ul style="list-style-type: none"> <li>• -25 to +135°C (-13 to 275°F)</li> <li>• -40 to +550°C (-40 to +1022°F)</li> </ul>
Accuracy	±5°C (±9°F) or ±5% of reading

P/N: 64309-0101

© 2015, FLIR Systems, Inc.  
#64309-0101; r. 25040; en-US

Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.5 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters

Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	GigE Vision ver. 1.2 Client API GenICam compliant
Ethernet, image streaming	8-bit monochrome @ 7.5 Hz <ul style="list-style-type: none"> <li>Signal linear/ DDE</li> <li>Automatic/ Manual</li> <li>Flip H&amp;V</li> </ul> 14-bit 160 × 128 pixels @ 7.5 Hz <ul style="list-style-type: none"> <li>Signal linear/ DDE</li> <li>Temperature linear</li> </ul> GigE Vision and GenICam compatible
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0 Power
Ethernet, protocols	TCP, UDP, ICMP, IGMP, DHCP, GigEVision

Digital input/output	
Digital input, purpose	General purpose
Digital input	1× opto-isolated, "0" <2, "1" = 2–12 VDC. <div>  <b>NOTE</b>  Maximum input 12 VDC. If the input is above 12 VDC without a resistor in series there is a risk of damaging the input. If the input is 24 VDC use a 1.2 kΩ resistor in series. In that case "1" = 3–24 VDC. </div>
Digital output, purpose	General purpose output to ext. device (programmatically set)
Digital output	1× opto-isolated, 2–40 VDC, max. 185 mA
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	2–40 VDC, max. 200 mA
Digital I/O, connector type	12-pole M12 connector (shared with Digital synchronization and External power)
Synchronization in, purpose	Frame synchronization in to control camera
Synchronization in	1×, non-isolated
Synchronization in, type	LVC Buffer @3.3V, "0" <0.8 V, "1">2.0 V.
Synchronization out, purpose	Frame synchronization out to control another FLIR Ax5 camera
Synchronization out	1×, non-isolated

**P/N: 64309-0101**

 © 2015, FLIR Systems, Inc.  
 #64309-0101; r. 25040; en-US

<b>Digital input/output</b>	
Synchronization out, type	LVC Buffer @ 3.3V, "0"=24 MA max, "1"= -24 mA max.
Digital synchronization, connector type	12-pole M12 connector (shared with Digital I/O and External power)

<b>Power system</b>	
External power operation	12/24 VDC, < 3.5 W nominal < 6.0 W absolute max.
External power, connector type	12-pole M12 connector (shared with Digital I/O and Digital Synchronization )
Voltage	Allowed range 10–30 VDC

<b>Environmental data</b>	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> <li>• EN 61000-6-2 (Immunity)</li> <li>• EN 61000-6-3 (Emission)</li> <li>• FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 40 (IEC 60529) with base support mounted
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

<b>Physical data</b>	
Weight	0.200 kg (0.44 lb.)
Camera size (L x W x H)	106 x 40 x 43 mm (4.2 x 1.6 x 1.7 in.)
Tripod mounting	UNC ¼"-20 (on three sides)
Base mounting	4 x M3 thread mounting holes (bottom)
Housing material	Magnesium and aluminum

<b>Shipping information</b>	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• FLIR Tools download card</li> <li>• Focus adjustment tool</li> <li>• Printed documentation</li> <li>• User documentation CD-ROM</li> </ul>
Packaging, weight	
Packaging, size	295 x 200 x 105 mm (11.6 x 7.9 x 4.1 in.)
EAN-13	7332558005644
UPC-12	845188005856
Country of origin	Sweden

**Supplies & accessories:**

- T951004ACC; Ethernet cable CAT-6, 2m/6.6 ft.
- T198349; Base support
- T198348; Cable kit Mains (UK,EU,US)
- T911112; PoE injector
- T198392; Table stand kit
- T911183; Gigabit PoE injector 16 W, with multi-plugs
- T127605ACC; Cable M12 Pigtail
- T127606ACC; Cable M12 Sync
- T198342ACC; Focus adjustment tool
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player



**P/N: 62309-0102**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 62309-0102  
Commit: 25040  
Language: en-US  
Modified: 2015-04-28 09:21  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR A15 has features and functions that make it the natural choice for anyone who uses PC software to solve problems and for whom 160 × 128 pixel resolution is sufficient.

Among its main features are GigE Vision and GenICam compliance, which makes it plug-and-play when used with software packages such as IMAQ Vision and Halcon.

## Key features:

- Very affordable.
- Compact (40 mm × 43 mm × 106 mm).
- GigE Vision and GenICam compliant.
- GigE Vision lockable connector.
- PoE (power over Ethernet).
- 8-bit 160 × 128 pixel images streamed at 60 Hz, signal linear.
- 14-bit 160 × 128 pixel images streamed at 60 Hz, signal and temperature linear.
- High frame rates (60 Hz).
- Synchronization between cameras possible.
- 1x+1x GPIO.
- Compliant with any software that supports GenICam, including National Instruments IMAQ Vision, Stemmers Common Vision Blox, and COGNEX Vision Pro.

## Typical applications:

- Automation and thermal machine vision.
- Entry level "high-speed" R&D.

## Imaging and optical data

IR resolution	160 × 128 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	48° × 39°
Focal length	9 mm (0.35 in.)
Spatial resolution (IFOV)	5.56 mrad
F-number	1.25
Image frequency	60 Hz
Focus	Fixed

## Detector data

Detector type	Focal plane array (FPA), uncooled VOX microbolometer
Spectral range	7.5–13 μm
Detector pitch	50 μm
Detector time constant	Typical 12 ms

## Measurement


Object temperature range	<ul style="list-style-type: none"> <li>• -25 to +135°C (-13 to 275°F)</li> <li>• -40 to +550°C (-40 to +1022°F)</li> </ul>
Accuracy	±5°C (±9°F) or ±5% of reading

P/N: 62309-0102

© 2015, FLIR Systems, Inc.  
#62309-0102; r. 25040; en-US

Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.5 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters

Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	GigE Vision ver. 1.2 Client API GenICam compliant
Ethernet, image streaming	8-bit monochrome @ 60 Hz <ul style="list-style-type: none"> <li>Signal linear/ DDE</li> <li>Automatic/ Manual</li> <li>Flip H&amp;V</li> </ul> 14-bit 160 × 128 pixels @ 60 Hz <ul style="list-style-type: none"> <li>Signal linear/ DDE</li> <li>Temperature linear</li> </ul> GigE Vision and GenICam compatible
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0 Power
Ethernet, protocols	TCP, UDP, ICMP, IGMP, DHCP, GigEVision

Digital input/output	
Digital input, purpose	General purpose
Digital input	1× opto-isolated, "0" <2, "1" = 2–12 VDC. <div>  <b>NOTE</b>  Maximum input 12 VDC. If the input is above 12 VDC without a resistor in series there is a risk of damaging the input. If the input is 24 VDC use a 1.2 kΩ resistor in series. In that case "1" = 3–24 VDC. </div>
Digital output, purpose	General purpose output to ext. device (programmatically set)
Digital output	1× opto-isolated, 2–40 VDC, max. 185 mA
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	2–40 VDC, max. 200 mA
Digital I/O, connector type	12-pole M12 connector (shared with Digital synchronization and External power)
Synchronization in, purpose	Frame synchronization in to control camera
Synchronization in	1×, non-isolated
Synchronization in, type	LVC Buffer @3.3V, "0" <0.8 V, "1">2.0 V.
Synchronization out, purpose	Frame synchronization out to control another FLIR Ax5 camera
Synchronization out	1×, non-isolated

**P/N: 62309-0102**

© 2015, FLIR Systems, Inc.  
#62309-0102; r. 25040; en-US

<b>Digital input/output</b>	
Synchronization out, type	LVC Buffer @ 3.3V, "0"=24 MA max, "1"= -24 mA max.
Digital synchronization, connector type	12-pole M12 connector (shared with Digital I/O and External power)

<b>Power system</b>	
External power operation	12/24 VDC, < 3.5 W nominal < 6.0 W absolute max.
External power, connector type	12-pole M12 connector (shared with Digital I/O and Digital Synchronization )
Voltage	Allowed range 10–30 VDC

<b>Environmental data</b>	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> <li>• EN 61000-6-2 (Immunity)</li> <li>• EN 61000-6-3 (Emission)</li> <li>• FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 40 (IEC 60529) with base support mounted
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

<b>Physical data</b>	
Weight	0.200 kg (0.44 lb.)
Camera size (L x W x H)	106 x 40 x 43 mm (4.2 x 1.6 x 1.7 in.)
Tripod mounting	UNC ¼"-20 (on three sides)
Base mounting	4 x M3 thread mounting holes (bottom)
Housing material	Magnesium and aluminum

<b>Shipping information</b>	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Hard transport case</li> <li>• Infrared camera with lens</li> <li>• Base support</li> <li>• Cable tie (2 ea.)</li> <li>• Ethernet cable CAT-6, 2m/6.6 ft (2 ea.)</li> <li>• FLIR ResearchIR Standard 4</li> <li>• Focus adjustment tool</li> <li>• Gooseneck</li> <li>• Mains cable kit (UK,EU,US)</li> <li>• PoE Injector (power over Ethernet)</li> <li>• Printed documentation</li> <li>• Table stand</li> <li>• User documentation CD-ROM</li> </ul>
Packaging, weight	
Packaging, size	370 x 180 x 320 mm (14.6 x 7.1 x 12.6 in.)
EAN-13	7332558003985 4743254000612 (Estonia plant)
UPC-12	845188003562
Country of origin	Sweden

**Supplies & accessories:**

- T951004ACC; Ethernet cable CAT-6, 2m/6.6 ft.
- T198349; Base support
- T198348; Cable kit Mains (UK,EU,US)
- T911112; PoE injector
- T198371; Transport case Ax5



---

**P/N: 62309-0102**

© 2015, FLIR Systems, Inc.  
#62309-0102; r. 25040; en-US

- T198392; Table stand kit
- T911183; Gigabit PoE injector 16 W, with multi-plugs
- T127605ACC; Cable M12 Pigtail
- T127606ACC; Cable M12 Sync
- T198342ACC; Focus adjustment tool
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player

## P/N: 64309-0102

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 64309-0102  
Commit: 25040  
Language: en-US  
Modified: 2015-04-28 09:21  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The FLIR A15 has features and functions that make it the natural choice for anyone who uses PC software to solve problems and for whom 160 × 128 pixel resolution is sufficient.

Among its main features are GigE Vision and GenICam compliance, which makes it plug-and-play when used with software packages such as IMAQ Vision and Halcon.

### Key features:

- Very affordable.
- Compact (40 mm × 43 mm × 106 mm).
- GigE Vision and GenICam compliant.
- GigE Vision lockable connector.
- PoE (power over Ethernet).
- 8-bit 160 × 128 pixel images streamed at 7.5 Hz, signal linear.
- 14-bit 160 × 128 pixel images streamed at 7.5 Hz, signal and temperature linear.
- Synchronization between cameras possible.
- 1x+1x GPIO.
- Compliant with any software that supports GenICam, including National Instruments IMAQ Vision, Stemmers Common Vision Blox, and COGNEX Vision Pro.

### Typical applications:

- Automation and thermal machine vision.
- Entry level "high-speed" R&D.

### Imaging and optical data

IR resolution	160 × 128 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	48° × 39°
Focal length	9 mm (0.35 in.)
Spatial resolution (IFOV)	5.56 mrad
F-number	1.25
Image frequency	7.5 Hz
Focus	Fixed

### Detector data


Detector type	Focal plane array (FPA), uncooled VOX microbolometer
Spectral range	7.5–13 μm
Detector pitch	50 μm
Detector time constant	Typical 12 ms

### Measurement

Object temperature range	<ul style="list-style-type: none"> <li>• -25 to +135°C (-13 to 275°F)</li> <li>• -40 to +550°C (-40 to +1022°F)</li> </ul>
Accuracy	±5°C (±9°F) or ±5% of reading

P/N: 64309-0102

© 2015, FLIR Systems, Inc.  
#64309-0102; r. 25040; en-US

Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.5 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters
Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	GigE Vision ver. 1.2 Client API GenICam compliant
Ethernet, image streaming	8-bit monochrome @ 7.5 Hz <ul style="list-style-type: none"> <li>Signal linear/ DDE</li> <li>Automatic/ Manual</li> <li>Flip H&amp;V</li> </ul> 14-bit 160 × 128 pixels @ 7.5 Hz <ul style="list-style-type: none"> <li>Signal linear/ DDE</li> <li>Temperature linear</li> </ul> GigE Vision and GenICam compatible
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0 Power
Ethernet, protocols	TCP, UDP, ICMP, IGMP, DHCP, GigEVision
Digital input/output	
Digital input, purpose	General purpose
Digital input	1× opto-isolated, "0" <2, "1" = 2–12 VDC. <div>  <b>NOTE</b>  Maximum input 12 VDC. If the input is above 12 VDC without a resistor in series there is a risk of damaging the input. If the input is 24 VDC use a 1.2 kΩ resistor in series. In that case "1" = 3–24 VDC. </div>
Digital output, purpose	General purpose output to ext. device (programmatically set)
Digital output	1× opto-isolated, 2–40 VDC, max. 185 mA
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	2–40 VDC, max. 200 mA
Digital I/O, connector type	12-pole M12 connector (shared with Digital synchronization and External power)
Synchronization in, purpose	Frame synchronization in to control camera
Synchronization in	1×, non-isolated
Synchronization in, type	LVC Buffer @3.3V, "0" <0.8 V, "1">2.0 V.
Synchronization out, purpose	Frame synchronization out to control another FLIR Ax5 camera
Synchronization out	1×, non-isolated

**P/N: 64309-0102**

© 2015, FLIR Systems, Inc.  
#64309-0102; r. 25040; en-US

<b>Digital input/output</b>	
Synchronization out, type	LVC Buffer @ 3.3V, "0"=24 MA max, "1"= -24 mA max.
Digital synchronization, connector type	12-pole M12 connector (shared with Digital I/O and External power)

<b>Power system</b>	
External power operation	12/24 VDC, < 3.5 W nominal < 6.0 W absolute max.
External power, connector type	12-pole M12 connector (shared with Digital I/O and Digital Synchronization )
Voltage	Allowed range 10–30 VDC

<b>Environmental data</b>	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> <li>• EN 61000-6-2 (Immunity)</li> <li>• EN 61000-6-3 (Emission)</li> <li>• FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 40 (IEC 60529) with base support mounted
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

<b>Physical data</b>	
Weight	0.200 kg (0.44 lb.)
Camera size (L x W x H)	106 x 40 x 43 mm (4.2 x 1.6 x 1.7 in.)
Tripod mounting	UNC ¼"-20 (on three sides)
Base mounting	4 x M3 thread mounting holes (bottom)
Housing material	Magnesium and aluminum

<b>Shipping information</b>	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Hard transport case</li> <li>• Infrared camera with lens</li> <li>• Base support</li> <li>• Cable tie (2 ea.)</li> <li>• Ethernet cable CAT-6, 2m/6.6 ft (2 ea.)</li> <li>• FLIR ResearchIR Standard 4</li> <li>• Focus adjustment tool</li> <li>• Gooseneck</li> <li>• Mains cable kit (UK,EU,US)</li> <li>• PoE Injector (power over Ethernet)</li> <li>• Printed documentation</li> <li>• Table stand</li> <li>• User documentation CD-ROM</li> </ul>
Packaging, weight	
Packaging, size	370 x 180 x 320 mm (14.6 x 7.1 x 12.6 in.)
EAN-13	7332558005651
UPC-12	845188005863
Country of origin	Sweden

**Supplies & accessories:**

- T951004ACC; Ethernet cable CAT-6, 2m/6.6 ft.
- T198349; Base support
- T198348; Cable kit Mains (UK,EU,US)
- T911112; PoE injector
- T198371; Transport case Ax5
- T198392; Table stand kit



---

**P/N: 64309-0102**

© 2015, FLIR Systems, Inc.  
#64309-0102; r. 25040; en-US

- T911183; Gigabit PoE injector 16 W, with multi-plugs
- T127605ACC; Cable M12 Pigtail
- T127606ACC; Cable M12 Sync
- T198342ACC; Focus adjustment tool
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player



**P/N: 63219-0101**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 63219-0101  
Commit: 25040  
Language: en-US  
Modified: 2015-04-28 09:21  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR A35 has features and functions that make it the natural choice for anyone who uses PC software to solve problems and for whom 320 × 256 pixel resolution is sufficient.

Among its main features are GigE Vision and GenICam compliance, which makes it plug-and-play when used with software packages such as IMAQ Vision and Halcon.

## Key features:

- Very affordable.
- Compact (40 mm × 43 mm × 106 mm).
- GigE Vision and GenICam compliant.
- GigE Vision lockable connector.
- PoE (power over Ethernet).
- 8-bit 320 × 256 pixel images streamed at 60 Hz, signal linear.
- 14-bit 320 × 256 pixel images streamed at 60 Hz, signal and temperature linear.
- High frame rates (60 Hz).
- Synchronization between cameras possible.
- 1x+1x GPIO.
- Compliant with any software that supports GenICam, including National Instruments IMAQ Vision, Stemmers Common Vision Blox, and COGNEX Vision Pro.

## Typical applications:

- Automation and thermal machine vision.
- Entry level "high-speed" R&D.

## Imaging and optical data

IR resolution	320 × 256 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	25° × 19°
Focal length	19 mm (0.75 in.)
Spatial resolution (IFOV)	1.32 mrad
F-number	1.25
Image frequency	60 Hz
Focus	Fixed

## Detector data

Detector type	Focal plane array (FPA), uncooled VOX microbolometer
Spectral range	7.5–13 μm
Detector pitch	25 μm
Detector time constant	Typical 12 ms

## Measurement


Object temperature range	<ul style="list-style-type: none"> <li>• -25 to +135°C (-13 to 275°F)</li> <li>• -40 to +550°C (-40 to +1022°F)</li> </ul>
Accuracy	±5°C (±9°F) or ±5% of reading

P/N: 63219-0101

© 2015, FLIR Systems, Inc.  
#63219-0101; r. 25040; en-US

Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.5 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters

Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	GigE Vision ver. 1.2 Client API GenICam compliant
Ethernet, image streaming	8-bit monochrome @ 60 Hz <ul style="list-style-type: none"> <li>Signal linear/ DDE</li> <li>Automatic/ Manual</li> <li>Flip H&amp;V</li> </ul> 14-bit 320 × 256 pixels @ 60 Hz <ul style="list-style-type: none"> <li>Signal linear/ DDE</li> <li>Temperature linear</li> </ul> GigE Vision and GenICam compatible
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0 Power
Ethernet, protocols	TCP, UDP, ICMP, IGMP, DHCP, GigEVision

Digital input/output	
Digital input, purpose	General purpose
Digital input	1× opto-isolated, "0" <2, "1" = 2–12 VDC. <div>  <b>NOTE</b>  Maximum input 12 VDC. If the input is above 12 VDC without a resistor in series there is a risk of damaging the input. If the input is 24 VDC use a 1.2 kΩ resistor in series. In that case "1" = 3–24 VDC. </div>
Digital output, purpose	General purpose output to ext. device (programmatically set)
Digital output	1× opto-isolated, 2–40 VDC, max. 185 mA
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	2–40 VDC, max. 200 mA
Digital I/O, connector type	12-pole M12 connector (shared with Digital synchronization and External power)
Synchronization in, purpose	Frame synchronization in to control camera
Synchronization in	1×, non-isolated
Synchronization in, type	LVC Buffer @3.3V, "0" <0.8 V, "1">2.0 V.
Synchronization out, purpose	Frame synchronization out to control another FLIR Ax5 camera
Synchronization out	1×, non-isolated

**P/N: 63219-0101**

© 2015, FLIR Systems, Inc.  
#63219-0101; r. 25040; en-US

<b>Digital input/output</b>	
Synchronization out, type	LVC Buffer @ 3.3V, "0"=24 MA max, "1"= -24 mA max.
Digital synchronization, connector type	12-pole M12 connector (shared with Digital I/O and External power)

<b>Power system</b>	
External power operation	12/24 VDC, < 3.5 W nominal < 6.0 W absolute max.
External power, connector type	12-pole M12 connector (shared with Digital I/O and Digital Synchronization )
Voltage	Allowed range 10–30 VDC

<b>Environmental data</b>	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> <li>• EN 61000-6-2 (Immunity)</li> <li>• EN 61000-6-3 (Emission)</li> <li>• FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 40 (IEC 60529) with base support mounted
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

<b>Physical data</b>	
Weight	0.200 kg (0.44 lb.)
Camera size (L × W × H)	106 × 40 × 43 mm (4.2 × 1.6 × 1.7 in.)
Tripod mounting	UNC ¼"-20 (on three sides)
Base mounting	4 × M3 thread mounting holes (bottom)
Housing material	Magnesium and aluminum

<b>Shipping information</b>	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• FLIR Tools download card</li> <li>• Focus adjustment tool</li> <li>• Printed documentation</li> <li>• User documentation CD-ROM</li> </ul>
Packaging, weight	
Packaging, size	295 × 200 × 105 mm (11.6 × 7.9 × 4.1 in.)
EAN-13	7332558004104 4743254000568 (Estonia plant)
UPC-12	845188003517
Country of origin	Sweden

**Supplies & accessories:**

- T951004ACC; Ethernet cable CAT-6, 2m/6.6 ft.
- T198349; Base support
- T198348; Cable kit Mains (UK,EU,US)
- T911112; PoE injector
- T198392; Table stand kit
- T911183; Gigabit PoE injector 16 W, with multi-plugs
- T127605ACC; Cable M12 Pigtail
- T127606ACC; Cable M12 Sync
- T198342ACC; Focus adjustment tool
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)



FLIR A35 f=19 mm

---

**P/N: 63219-0101**

© 2015, FLIR Systems, Inc.  
#63219-0101; r. 25040; en-US

- DSW-10000; FLIR IR Camera Player

**P/N: 63209-0101**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 63209-0101  
Commit: 25040  
Language: en-US  
Modified: 2015-04-28 09:21  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR A35 has features and functions that make it the natural choice for anyone who uses PC software to solve problems and for whom 320 × 256 pixel resolution is sufficient.

Among its main features are GigE Vision and GenICam compliance, which makes it plug-and-play when used with software packages such as IMAQ Vision and Halcon.

## Key features:

- Very affordable.
- Compact (40 mm × 43 mm × 106 mm).
- GigE Vision and GenICam compliant.
- GigE Vision lockable connector.
- PoE (power over Ethernet).
- 8-bit 320 × 256 pixel images streamed at 60 Hz, signal linear.
- 14-bit 320 × 256 pixel images streamed at 60 Hz, signal and temperature linear.
- High frame rates (60 Hz).
- Synchronization between cameras possible.
- 1x+1x GPIO.
- Compliant with any software that supports GenICam, including National Instruments IMAQ Vision, Stemmers Common Vision Blox, and COGNEX Vision Pro.

## Typical applications:

- Automation and thermal machine vision.
- Entry level "high-speed" R&D.

## Imaging and optical data

IR resolution	320 × 256 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	48° × 39°
Focal length	9 mm (0.35 in.)
Spatial resolution (IFOV)	2.78 mrad
F-number	1.25
Image frequency	60 Hz
Focus	Fixed

## Detector data


Detector type	Focal plane array (FPA), uncooled VOX microbolometer
Spectral range	7.5–13 μm
Detector pitch	25 μm
Detector time constant	Typical 12 ms

## Measurement

Object temperature range	<ul style="list-style-type: none"> <li>• -25 to +135°C (-13 to 275°F)</li> <li>• -40 to +550°C (-40 to +1022°F)</li> </ul>
Accuracy	±5°C (±9°F) or ±5% of reading

P/N: 63209-0101

© 2015, FLIR Systems, Inc.  
#63209-0101; r. 25040; en-US

Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.5 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters
Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	GigE Vision ver. 1.2 Client API GenICam compliant
Ethernet, image streaming	8-bit monochrome @ 60 Hz <ul style="list-style-type: none"> <li>Signal linear/ DDE</li> <li>Automatic/ Manual</li> <li>Flip H&amp;V</li> </ul> 14-bit 320 × 256 pixels @ 60 Hz <ul style="list-style-type: none"> <li>Signal linear/ DDE</li> <li>Temperature linear</li> </ul> GigE Vision and GenICam compatible
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0 Power
Ethernet, protocols	TCP, UDP, ICMP, IGMP, DHCP, GigEVision
Digital input/output	
Digital input, purpose	General purpose
Digital input	1× opto-isolated, "0" <2, "1" = 2–12 VDC. <div>  <b>NOTE</b>  Maximum input 12 VDC. If the input is above 12 VDC without a resistor in series there is a risk of damaging the input. If the input is 24 VDC use a 1.2 kΩ resistor in series. In that case "1" = 3–24 VDC. </div>
Digital output, purpose	General purpose output to ext. device (programmatically set)
Digital output	1× opto-isolated, 2–40 VDC, max. 185 mA
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	2–40 VDC, max. 200 mA
Digital I/O, connector type	12-pole M12 connector (shared with Digital synchronization and External power)
Synchronization in, purpose	Frame synchronization in to control camera
Synchronization in	1×, non-isolated
Synchronization in, type	LVC Buffer @3.3V, "0" <0.8 V, "1">2.0 V.
Synchronization out, purpose	Frame synchronization out to control another FLIR Ax5 camera
Synchronization out	1×, non-isolated

**P/N: 63209-0101**

© 2015, FLIR Systems, Inc.  
#63209-0101; r. 25040; en-US

<b>Digital input/output</b>	
Synchronization out, type	LVC Buffer @ 3.3V, "0"=24 MA max, "1"= -24 mA max.
Digital synchronization, connector type	12-pole M12 connector (shared with Digital I/O and External power)

<b>Power system</b>	
External power operation	12/24 VDC, < 3.5 W nominal < 6.0 W absolute max.
External power, connector type	12-pole M12 connector (shared with Digital I/O and Digital Synchronization )
Voltage	Allowed range 10–30 VDC

<b>Environmental data</b>	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> <li>• EN 61000-6-2 (Immunity)</li> <li>• EN 61000-6-3 (Emission)</li> <li>• FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 40 (IEC 60529) with base support mounted
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

<b>Physical data</b>	
Weight	0.200 kg (0.44 lb.)
Camera size (L × W × H)	106 × 40 × 43 mm (4.2 × 1.6 × 1.7 in.)
Tripod mounting	UNC ¼"-20 (on three sides)
Base mounting	4 × M3 thread mounting holes (bottom)
Housing material	Magnesium and aluminum

<b>Shipping information</b>	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• FLIR Tools download card</li> <li>• Focus adjustment tool</li> <li>• Printed documentation</li> <li>• User documentation CD-ROM</li> </ul>
Packaging, weight	
Packaging, size	295 × 200 × 105 mm (11.6 × 7.9 × 4.1 in.)
EAN-13	7332558004081 4743254000551 (Estonia plant)
UPC-12	845188003500
Country of origin	Sweden

**Supplies & accessories:**

- T951004ACC; Ethernet cable CAT-6, 2m/6.6 ft.
- T198349; Base support
- T198348; Cable kit Mains (UK,EU,US)
- T911112; PoE injector
- T198392; Table stand kit
- T911183; Gigabit PoE injector 16 W, with multi-plugs
- T127605ACC; Cable M12 Pigtail
- T127606ACC; Cable M12 Sync
- T198342ACC; Focus adjustment tool
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)



FLIR A35 f=9 mm

---

**P/N: 63209-0101**

© 2015, FLIR Systems, Inc.  
#63209-0101; r. 25040; en-US

- DSW-10000; FLIR IR Camera Player



**P/N: 63209-0102**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 63209-0102  
Commit: 25040  
Language: en-US  
Modified: 2015-04-28 09:21  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR A35 has features and functions that make it the natural choice for anyone who uses PC software to solve problems and for whom 320 × 256 pixel resolution is sufficient.

Among its main features are GigE Vision and GenICam compliance, which makes it plug-and-play when used with software packages such as IMAQ Vision and Halcon.

## Key features:

- Very affordable.
- Compact (40 mm × 43 mm × 106 mm).
- GigE Vision and GenICam compliant.
- GigE Vision lockable connector.
- PoE (power over Ethernet).
- 8-bit 320 × 256 pixel images streamed at 60 Hz, signal linear.
- 14-bit 320 × 256 pixel images streamed at 60 Hz, signal and temperature linear.
- High frame rates (60 Hz).
- Synchronization between cameras possible.
- 1x+1x GPIO.
- Compliant with any software that supports GenICam, including National Instruments IMAQ Vision, Stemmers Common Vision Blox, and COGNEX Vision Pro.

## Typical applications:

- Automation and thermal machine vision.
- Entry level "high-speed" R&D.

## Imaging and optical data

IR resolution	320 × 256 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	48° × 39°
Focal length	9 mm (0.35 in.)
Spatial resolution (IFOV)	2.78 mrad
F-number	1.25
Image frequency	60 Hz
Focus	Fixed

## Detector data

Detector type	Focal plane array (FPA), uncooled VOX microbolometer
Spectral range	7.5–13 μm
Detector pitch	25 μm
Detector time constant	Typical 12 ms

## Measurement


Object temperature range	<ul style="list-style-type: none"> <li>• -25 to +135°C (-13 to 275°F)</li> <li>• -40 to +550°C (-40 to +1022°F)</li> </ul>
Accuracy	±5°C (±9°F) or ±5% of reading

P/N: 63209-0102

© 2015, FLIR Systems, Inc.  
#63209-0102; r. 25040; en-US

Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.5 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters

Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	GigE Vision ver. 1.2 Client API GenICam compliant
Ethernet, image streaming	8-bit monochrome @ 60 Hz <ul style="list-style-type: none"> <li>Signal linear/ DDE</li> <li>Automatic/ Manual</li> <li>Flip H&amp;V</li> </ul> 14-bit 320 × 256 pixels @ 60 Hz <ul style="list-style-type: none"> <li>Signal linear/ DDE</li> <li>Temperature linear</li> </ul> GigE Vision and GenICam compatible
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0 Power
Ethernet, protocols	TCP, UDP, ICMP, IGMP, DHCP, GigEVision

Digital input/output	
Digital input, purpose	General purpose
Digital input	1× opto-isolated, "0" <2, "1" = 2–12 VDC. <div>  <b>NOTE</b>  Maximum input 12 VDC. If the input is above 12 VDC without a resistor in series there is a risk of damaging the input. If the input is 24 VDC use a 1.2 kΩ resistor in series. In that case "1" = 3–24 VDC. </div>
Digital output, purpose	General purpose output to ext. device (programmatically set)
Digital output	1× opto-isolated, 2–40 VDC, max. 185 mA
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	2–40 VDC, max. 200 mA
Digital I/O, connector type	12-pole M12 connector (shared with Digital synchronization and External power)
Synchronization in, purpose	Frame synchronization in to control camera
Synchronization in	1×, non-isolated
Synchronization in, type	LVC Buffer @3.3V, "0" <0.8 V, "1">2.0 V.
Synchronization out, purpose	Frame synchronization out to control another FLIR Ax5 camera
Synchronization out	1×, non-isolated

**P/N: 63209-0102**

© 2015, FLIR Systems, Inc.  
#63209-0102; r. 25040; en-US

Digital input/output	
Synchronization out, type	LVC Buffer @ 3.3V, "0"=24 MA max, "1"= -24 mA max.
Digital synchronization, connector type	12-pole M12 connector (shared with Digital I/O and External power)

Power system	
External power operation	12/24 VDC, < 3.5 W nominal < 6.0 W absolute max.
External power, connector type	12-pole M12 connector (shared with Digital I/O and Digital Synchronization )
Voltage	Allowed range 10–30 VDC

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> <li>• EN 61000-6-2 (Immunity)</li> <li>• EN 61000-6-3 (Emission)</li> <li>• FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 40 (IEC 60529) with base support mounted
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	0.200 kg (0.44 lb.)
Camera size (L x W x H)	106 x 40 x 43 mm (4.2 x 1.6 x 1.7 in.)
Tripod mounting	UNC ¼"-20 (on three sides)
Base mounting	4 x M3 thread mounting holes (bottom)
Housing material	Magnesium and aluminum

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Hard transport case</li> <li>• Infrared camera with lens</li> <li>• Base support</li> <li>• Cable tie (2 ea.)</li> <li>• Ethernet cable CAT-6, 2m/6.6 ft (2 ea.)</li> <li>• FLIR ResearchIR Standard 4</li> <li>• Focus adjustment tool</li> <li>• Gooseneck</li> <li>• Mains cable kit (UK,EU,US)</li> <li>• PoE Injector (power over Ethernet)</li> <li>• Printed documentation</li> <li>• Table stand</li> <li>• User documentation CD-ROM</li> </ul>
Packaging, weight	
Packaging, size	370 x 180 x 320 mm (14.6 x 7.1 x 12.6 in.)
EAN-13	7332558004098
UPC-12	845188003524
Country of origin	Sweden

**Supplies & accessories:**

- T951004ACC; Ethernet cable CAT-6, 2m/6.6 ft.
- T198349; Base support
- T198348; Cable kit Mains (UK,EU,US)
- T911112; PoE injector
- T198371; Transport case Ax5
- T198392; Table stand kit



---

**P/N: 63209-0102**

© 2015, FLIR Systems, Inc.  
#63209-0102; r. 25040; en-US

- T911183; Gigabit PoE injector 16 W, with multi-plugs
- T127605ACC; Cable M12 Pigtail
- T127606ACC; Cable M12 Sync
- T198342ACC; Focus adjustment tool
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player

## P/N: 62205-0101

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 62205-0101  
Commit: 25040  
Language: en-US  
Modified: 2015-04-28 09:21  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The FLIR A5 has features and functions that make it the natural choice for anyone who uses PC software to solve problems and for whom 80 × 64 pixel resolution is sufficient.

Among its main features are GigE Vision and GenICam compliance, which makes it plug-and-play when used with software packages such as IMAQ Vision and Halcon.

#### Key features:

- Very affordable.
- Compact (40 mm × 43 mm × 106 mm).
- GigE Vision and GenICam compliant.
- GigE Vision lockable connector.
- PoE (power over Ethernet).
- 8-bit 80 × 64 pixel images streamed at 60 Hz, signal linear.
- 14-bit 80 × 64 pixel images streamed at 60 Hz, signal and temperature linear.
- High frame rates (60 Hz).
- Synchronization between cameras possible.
- 1x+1x GPIO.
- Compliant with any software that supports GenICam, including National Instruments IMAQ Vision, Stemmers Common Vision Blox, and COGNEX Vision Pro.

#### Typical applications:

- Automation and thermal machine vision.
- Entry level "high-speed" R&D.

### Imaging and optical data

IR resolution	80 × 64 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	44° × 36°
Focal length	5 mm (0.20 in.)
Spatial resolution (IFOV)	10.0 mrad
F-number	1.25
Image frequency	60 Hz
Focus	Fixed

### Detector data

Detector type	Focal plane array (FPA), uncooled VOX microbolometer
Spectral range	7.5–13 μm
Detector pitch	50 μm
Detector time constant	Typical 12 ms

### Measurement


Object temperature range	<ul style="list-style-type: none"> <li>• -25 to +135°C (-13 to 275°F)</li> <li>• -40 to +550°C (-40 to +1022°F)</li> </ul>
Accuracy	±5°C (±9°F) or ±5% of reading

P/N: 62205-0101

© 2015, FLIR Systems, Inc.  
#62205-0101; r. 25040; en-US

Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.5 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters

Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	GigE Vision ver. 1.2 Client API GenICam compliant
Ethernet, image streaming	8-bit monochrome @ 60 Hz <ul style="list-style-type: none"> <li>Signal linear/ DDE</li> <li>Automatic/ Manual</li> <li>Flip H&amp;V</li> </ul> 14-bit 80 × 64 pixels @ 60 Hz <ul style="list-style-type: none"> <li>Signal linear/ DDE</li> <li>Temperature linear</li> </ul> GigE Vision and GenICam compatible
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0 Power
Ethernet, protocols	TCP, UDP, ICMP, IGMP, DHCP, GigEVision

Digital input/output	
Digital input, purpose	General purpose
Digital input	1× opto-isolated, "0" <2, "1" = 2–12 VDC. <div>  <b>NOTE</b>  Maximum input 12 VDC. If the input is above 12 VDC without a resistor in series there is a risk of damaging the input. If the input is 24 VDC use a 1.2 kΩ resistor in series. In that case "1" = 3–24 VDC. </div>
Digital output, purpose	General purpose output to ext. device (programmatically set)
Digital output	1× opto-isolated, 2–40 VDC, max. 185 mA
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	2–40 VDC, max. 200 mA
Digital I/O, connector type	12-pole M12 connector (shared with Digital synchronization and External power)
Synchronization in, purpose	Frame synchronization in to control camera
Synchronization in	1×, non-isolated
Synchronization in, type	LVC Buffer @3.3V, "0" <0.8 V, "1">2.0 V.
Synchronization out, purpose	Frame synchronization out to control another FLIR Ax5 camera
Synchronization out	1×, non-isolated

**P/N: 62205-0101**

© 2015, FLIR Systems, Inc.  
#62205-0101; r. 25040; en-US

<b>Digital input/output</b>	
Synchronization out, type	LVC Buffer @ 3.3V, "0"=24 MA max, "1"= -24 mA max.
Digital synchronization, connector type	12-pole M12 connector (shared with Digital I/O and External power)

<b>Power system</b>	
External power operation	12/24 VDC, < 3.5 W nominal < 6.0 W absolute max.
External power, connector type	12-pole M12 connector (shared with Digital I/O and Digital Synchronization )
Voltage	Allowed range 10–30 VDC

<b>Environmental data</b>	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> <li>• EN 61000-6-2 (Immunity)</li> <li>• EN 61000-6-3 (Emission)</li> <li>• FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 40 (IEC 60529) with base support mounted
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

<b>Physical data</b>	
Weight	0.200 kg (0.44 lb.)
Camera size (L × W × H)	106 × 40 × 43 mm (4.2 × 1.6 × 1.7 in.)
Tripod mounting	UNC ¼"-20 (on three sides)
Base mounting	4 × M3 thread mounting holes (bottom)
Housing material	Magnesium and aluminum

<b>Shipping information</b>	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• FLIR Tools download card</li> <li>• Focus adjustment tool</li> <li>• Printed documentation</li> <li>• User documentation CD-ROM</li> </ul>
Packaging, weight	
Packaging, size	295 × 200 × 105 mm (11.6 × 7.9 × 4.1 in.)
EAN-13	7332558003930 4743254000636 (Estonia plant)
UPC-12	845188003586
Country of origin	Sweden

**Supplies & accessories:**

- T951004ACC; Ethernet cable CAT-6, 2m/6.6 ft.
- T198349; Base support
- T198348; Cable kit Mains (UK,EU,US)
- T911112; PoE injector
- T198392; Table stand kit
- T911183; Gigabit PoE injector 16 W, with multi-plugs
- T127605ACC; Cable M12 Pigtail
- T127606ACC; Cable M12 Sync
- T198342ACC; Focus adjustment tool
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)



FLIR A5 f=5 mm

---

**P/N: 62205-0101**

© 2015, FLIR Systems, Inc.

#62205-0101; r. 25040; en-US

- DSW-10000; FLIR IR Camera Player



**P/N: 64205-0101**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 64205-0101  
Commit: 25040  
Language: en-US  
Modified: 2015-04-28 09:21  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR A5 has features and functions that make it the natural choice for anyone who uses PC software to solve problems and for whom 80 × 64 pixel resolution is sufficient.

Among its main features are GigE Vision and GenICam compliance, which makes it plug-and-play when used with software packages such as IMAQ Vision and Halcon.

## Key features:

- Very affordable.
- Compact (40 mm × 43 mm × 106 mm).
- GigE Vision and GenICam compliant.
- GigE Vision lockable connector.
- PoE (power over Ethernet).
- 8-bit 80 × 64 pixel images streamed at 7.5 Hz, signal linear.
- 14-bit 80 × 64 pixel images streamed at 7.5 Hz, signal and temperature linear.
- Synchronization between cameras possible.
- 1x+1x GPIO.
- Compliant with any software that supports GenICam, including National Instruments IMAQ Vision, Stemmers Common Vision Blox, and COGNEX Vision Pro.

## Typical applications:

- Automation and thermal machine vision.
- Entry level "high-speed" R&D.

## Imaging and optical data

IR resolution	80 × 64 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	44° × 36°
Focal length	5 mm (0.20 in.)
Spatial resolution (IFOV)	10.0 mrad
F-number	1.25
Image frequency	7.5 Hz
Focus	Fixed

## Detector data


Detector type	Focal plane array (FPA), uncooled VOX microbolometer
Spectral range	7.5–13 μm
Detector pitch	50 μm
Detector time constant	Typical 12 ms

## Measurement

Object temperature range	<ul style="list-style-type: none"> <li>• -25 to +135°C (-13 to 275°F)</li> <li>• -40 to +550°C (-40 to +1022°F)</li> </ul>
Accuracy	±5°C (±9°F) or ±5% of reading

P/N: 64205-0101

© 2015, FLIR Systems, Inc.  
#64205-0101; r. 25040; en-US

Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.5 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters
Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	GigE Vision ver. 1.2 Client API GenICam compliant
Ethernet, image streaming	8-bit monochrome @ 7.5 Hz <ul style="list-style-type: none"> <li>Signal linear/ DDE</li> <li>Automatic/ Manual</li> <li>Flip H&amp;V</li> </ul> 14-bit 80 × 64 pixels @ 7.5 Hz <ul style="list-style-type: none"> <li>Signal linear/ DDE</li> <li>Temperature linear</li> </ul> GigE Vision and GenICam compatible
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0 Power
Ethernet, protocols	TCP, UDP, ICMP, IGMP, DHCP, GigEVision
Digital input/output	
Digital input, purpose	General purpose
Digital input	1× opto-isolated, "0" <2, "1" = 2–12 VDC. <div>  <b>NOTE</b>  Maximum input 12 VDC. If the input is above 12 VDC without a resistor in series there is a risk of damaging the input. If the input is 24 VDC use a 1.2 kΩ resistor in series. In that case "1" = 3–24 VDC. </div>
Digital output, purpose	General purpose output to ext. device (programmatically set)
Digital output	1× opto-isolated, 2–40 VDC, max. 185 mA
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	2–40 VDC, max. 200 mA
Digital I/O, connector type	12-pole M12 connector (shared with Digital synchronization and External power)
Synchronization in, purpose	Frame synchronization in to control camera
Synchronization in	1×, non-isolated
Synchronization in, type	LVC Buffer @3.3V, "0" <0.8 V, "1">2.0 V.
Synchronization out, purpose	Frame synchronization out to control another FLIR Ax5 camera
Synchronization out	1×, non-isolated

**P/N: 64205-0101**

 © 2015, FLIR Systems, Inc.  
 #64205-0101; r. 25040; en-US

<b>Digital input/output</b>	
Synchronization out, type	LVC Buffer @ 3.3V, "0"=24 MA max, "1"= -24 mA max.
Digital synchronization, connector type	12-pole M12 connector (shared with Digital I/O and External power)

<b>Power system</b>	
External power operation	12/24 VDC, < 3.5 W nominal < 6.0 W absolute max.
External power, connector type	12-pole M12 connector (shared with Digital I/O and Digital Synchronization )
Voltage	Allowed range 10–30 VDC

<b>Environmental data</b>	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> <li>• EN 61000-6-2 (Immunity)</li> <li>• EN 61000-6-3 (Emission)</li> <li>• FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 40 (IEC 60529) with base support mounted
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

<b>Physical data</b>	
Weight	0.200 kg (0.44 lb.)
Camera size (L x W x H)	106 x 40 x 43 mm (4.2 x 1.6 x 1.7 in.)
Tripod mounting	UNC ¼"-20 (on three sides)
Base mounting	4 x M3 thread mounting holes (bottom)
Housing material	Magnesium and aluminum

<b>Shipping information</b>	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• FLIR Tools download card</li> <li>• Focus adjustment tool</li> <li>• Printed documentation</li> <li>• User documentation CD-ROM</li> </ul>
Packaging, weight	
Packaging, size	295 x 200 x 105 mm (11.6 x 7.9 x 4.1 in.)
EAN-13	7332558005620
UPC-12	845188005832
Country of origin	Sweden

**Supplies & accessories:**

- T951004ACC; Ethernet cable CAT-6, 2m/6.6 ft.
- T198349; Base support
- T198348; Cable kit Mains (UK,EU,US)
- T911112; PoE injector
- T198392; Table stand kit
- T911183; Gigabit PoE injector 16 W, with multi-plugs
- T127605ACC; Cable M12 Pigtail
- T127606ACC; Cable M12 Sync
- T198342ACC; Focus adjustment tool
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player

**P/N: 62205-0102**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 62205-0102  
Commit: 25040  
Language: en-US  
Modified: 2015-04-28 09:21  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR A5 has features and functions that make it the natural choice for anyone who uses PC software to solve problems and for whom 80 × 64 pixel resolution is sufficient.

Among its main features are GigE Vision and GenICam compliance, which makes it plug-and-play when used with software packages such as IMAQ Vision and Halcon.

## Key features:

- Very affordable.
- Compact (40 mm × 43 mm × 106 mm).
- GigE Vision and GenICam compliant.
- GigE Vision lockable connector.
- PoE (power over Ethernet).
- 8-bit 80 × 64 pixel images streamed at 60 Hz, signal linear.
- 14-bit 80 × 64 pixel images streamed at 60 Hz, signal and temperature linear.
- High frame rates (60 Hz).
- Synchronization between cameras possible.
- 1x+1x GPIO.
- Compliant with any software that supports GenICam, including National Instruments IMAQ Vision, Stemmers Common Vision Blox, and COGNEX Vision Pro.

## Typical applications:

- Automation and thermal machine vision.
- Entry level "high-speed" R&D.

## Imaging and optical data

IR resolution	80 × 64 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	44° × 36°
Focal length	5 mm (0.20 in.)
Spatial resolution (IFOV)	10.0 mrad
F-number	1.25
Image frequency	60 Hz
Focus	Fixed

## Detector data

Detector type	Focal plane array (FPA), uncooled VOX microbolometer
Spectral range	7.5–13 μm
Detector pitch	50 μm
Detector time constant	Typical 12 ms

## Measurement


Object temperature range	<ul style="list-style-type: none"> <li>• -25 to +135°C (-13 to 275°F)</li> <li>• -40 to +550°C (-40 to +1022°F)</li> </ul>
Accuracy	±5°C (±9°F) or ±5% of reading

P/N: 62205-0102

© 2015, FLIR Systems, Inc.  
#62205-0102; r. 25040; en-US

Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.5 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters

Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	GigE Vision ver. 1.2 Client API GenICam compliant
Ethernet, image streaming	8-bit monochrome @ 60 Hz <ul style="list-style-type: none"> <li>Signal linear/ DDE</li> <li>Automatic/ Manual</li> <li>Flip H&amp;V</li> </ul> 14-bit 80 × 64 pixels @ 60 Hz <ul style="list-style-type: none"> <li>Signal linear/ DDE</li> <li>Temperature linear</li> </ul> GigE Vision and GenICam compatible
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0 Power
Ethernet, protocols	TCP, UDP, ICMP, IGMP, DHCP, GigEVision

Digital input/output	
Digital input, purpose	General purpose
Digital input	1× opto-isolated, "0" <2, "1" = 2–12 VDC. <div>  <b>NOTE</b>  Maximum input 12 VDC. If the input is above 12 VDC without a resistor in series there is a risk of damaging the input. If the input is 24 VDC use a 1.2 kΩ resistor in series. In that case "1" = 3–24 VDC. </div>
Digital output, purpose	General purpose output to ext. device (programmatically set)
Digital output	1× opto-isolated, 2–40 VDC, max. 185 mA
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	2–40 VDC, max. 200 mA
Digital I/O, connector type	12-pole M12 connector (shared with Digital synchronization and External power)
Synchronization in, purpose	Frame synchronization in to control camera
Synchronization in	1×, non-isolated
Synchronization in, type	LVC Buffer @3.3V, "0" <0.8 V, "1">2.0 V.
Synchronization out, purpose	Frame synchronization out to control another FLIR Ax5 camera
Synchronization out	1×, non-isolated

**P/N: 62205-0102**

© 2015, FLIR Systems, Inc.  
#62205-0102; r. 25040; en-US

Digital input/output	
Synchronization out, type	LVC Buffer @ 3.3V, "0"=24 MA max, "1"= -24 mA max.
Digital synchronization, connector type	12-pole M12 connector (shared with Digital I/O and External power)

Power system	
External power operation	12/24 VDC, < 3.5 W nominal < 6.0 W absolute max.
External power, connector type	12-pole M12 connector (shared with Digital I/O and Digital Synchronization )
Voltage	Allowed range 10–30 VDC

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> <li>• EN 61000-6-2 (Immunity)</li> <li>• EN 61000-6-3 (Emission)</li> <li>• FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 40 (IEC 60529) with base support mounted
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	0.200 kg (0.44 lb.)
Camera size (L × W × H)	106 × 40 × 43 mm (4.2 × 1.6 × 1.7 in.)
Tripod mounting	UNC ¼"-20 (on three sides)
Base mounting	4 × M3 thread mounting holes (bottom)
Housing material	Magnesium and aluminum

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Hard transport case</li> <li>• Infrared camera with lens</li> <li>• Base support</li> <li>• Cable tie (2 ea.)</li> <li>• Ethernet cable CAT-6, 2m/6.6 ft (2 ea.)</li> <li>• FLIR ResearchIR Standard 4</li> <li>• Focus adjustment tool</li> <li>• Gooseneck</li> <li>• Mains cable kit (UK,EU,US)</li> <li>• PoE Injector (power over Ethernet)</li> <li>• Printed documentation</li> <li>• Table stand</li> <li>• User documentation CD-ROM</li> </ul>
Packaging, weight	
Packaging, size	370 × 180 × 320 mm (14.6 × 7.1 × 12.6 in.)
EAN-13	7332558003947 4743254000650 (Estonia plant)
UPC-12	845188003609
Country of origin	Sweden

**Supplies & accessories:**

- T951004ACC; Ethernet cable CAT-6, 2m/6.6 ft.
- T198349; Base support
- T198348; Cable kit Mains (UK,EU,US)
- T911112; PoE injector
- T198371; Transport case Ax5



---

**P/N: 62205-0102**

© 2015, FLIR Systems, Inc.  
#62205-0102; r. 25040; en-US

- T198392; Table stand kit
- T911183; Gigabit PoE injector 16 W, with multi-plugs
- T127605ACC; Cable M12 Pigtail
- T127606ACC; Cable M12 Sync
- T198342ACC; Focus adjustment tool
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player

## P/N: 64205-0102

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 64205-0102  
Commit: 25040  
Language: en-US  
Modified: 2015-04-28 09:21  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The FLIR A5 has features and functions that make it the natural choice for anyone who uses PC software to solve problems and for whom 80 × 64 pixel resolution is sufficient.

Among its main features are GigE Vision and GenICam compliance, which makes it plug-and-play when used with software packages such as IMAQ Vision and Halcon.

#### Key features:

- Very affordable.
- Compact (40 mm × 43 mm × 106 mm).
- GigE Vision and GenICam compliant.
- GigE Vision lockable connector.
- PoE (power over Ethernet).
- 8-bit 80 × 64 pixel images streamed at 7.5 Hz, signal linear.
- 14-bit 80 × 64 pixel images streamed at 7.5 Hz, signal and temperature linear.
- Synchronization between cameras possible.
- 1x+1x GPIO.
- Compliant with any software that supports GenICam, including National Instruments IMAQ Vision, Stemmers Common Vision Blox, and COGNEX Vision Pro.

#### Typical applications:

- Automation and thermal machine vision.
- Entry level "high-speed" R&D.

### Imaging and optical data

IR resolution	80 × 64 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	44° × 36°
Focal length	5 mm (0.20 in.)
Spatial resolution (IFOV)	10.0 mrad
F-number	1.25
Image frequency	7.5 Hz
Focus	Fixed

### Detector data

Detector type	Focal plane array (FPA), uncooled VOX microbolometer
Spectral range	7.5–13 μm
Detector pitch	50 μm
Detector time constant	Typical 12 ms

### Measurement

Object temperature range	<ul style="list-style-type: none"> <li>• -25 to +135°C (-13 to 275°F)</li> <li>• -40 to +550°C (-40 to +1022°F)</li> </ul>
Accuracy	±5°C (±9°F) or ±5% of reading




P/N: 64205-0102

© 2015, FLIR Systems, Inc.  
#64205-0102; r. 25040; en-US

Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.5 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters

Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	GigE Vision ver. 1.2 Client API GenICam compliant
Ethernet, image streaming	8-bit monochrome @ 7.5 Hz <ul style="list-style-type: none"> <li>Signal linear/ DDE</li> <li>Automatic/ Manual</li> <li>Flip H&amp;V</li> </ul> 14-bit 80 × 64 pixels @ 7.5 Hz <ul style="list-style-type: none"> <li>Signal linear/ DDE</li> <li>Temperature linear</li> </ul> GigE Vision and GenICam compatible
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0 Power
Ethernet, protocols	TCP, UDP, ICMP, IGMP, DHCP, GigEVision

Digital input/output	
Digital input, purpose	General purpose
Digital input	1× opto-isolated, "0" <2, "1" = 2–12 VDC. <div>  <b>NOTE</b>  Maximum input 12 VDC. If the input is above 12 VDC without a resistor in series there is a risk of damaging the input. If the input is 24 VDC use a 1.2 kΩ resistor in series. In that case "1" = 3–24 VDC. </div>
Digital output, purpose	General purpose output to ext. device (programmatically set)
Digital output	1× opto-isolated, 2–40 VDC, max. 185 mA
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	2–40 VDC, max. 200 mA
Digital I/O, connector type	12-pole M12 connector (shared with Digital synchronization and External power)
Synchronization in, purpose	Frame synchronization in to control camera
Synchronization in	1×, non-isolated
Synchronization in, type	LVC Buffer @3.3V, "0" <0.8 V, "1">2.0 V.
Synchronization out, purpose	Frame synchronization out to control another FLIR Ax5 camera
Synchronization out	1×, non-isolated

**P/N: 64205-0102**

© 2015, FLIR Systems, Inc.  
#64205-0102; r. 25040; en-US

Digital input/output	
Synchronization out, type	LVC Buffer @ 3.3V, "0"=24 MA max, "1"= -24 mA max.
Digital synchronization, connector type	12-pole M12 connector (shared with Digital I/O and External power)

Power system	
External power operation	12/24 VDC, < 3.5 W nominal < 6.0 W absolute max.
External power, connector type	12-pole M12 connector (shared with Digital I/O and Digital Synchronization )
Voltage	Allowed range 10–30 VDC

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> <li>• EN 61000-6-2 (Immunity)</li> <li>• EN 61000-6-3 (Emission)</li> <li>• FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 40 (IEC 60529) with base support mounted
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	0.200 kg (0.44 lb.)
Camera size (L x W x H)	106 x 40 x 43 mm (4.2 x 1.6 x 1.7 in.)
Tripod mounting	UNC ¼"-20 (on three sides)
Base mounting	4 x M3 thread mounting holes (bottom)
Housing material	Magnesium and aluminum

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Hard transport case</li> <li>• Infrared camera with lens</li> <li>• Base support</li> <li>• Cable tie (2 ea.)</li> <li>• Ethernet cable CAT-6, 2m/6.6 ft (2 ea.)</li> <li>• FLIR ResearchIR Standard 4</li> <li>• Focus adjustment tool</li> <li>• Gooseneck</li> <li>• Mains cable kit (UK,EU,US)</li> <li>• PoE Injector (power over Ethernet)</li> <li>• Printed documentation</li> <li>• Table stand</li> <li>• User documentation CD-ROM</li> </ul>
Packaging, weight	
Packaging, size	370 x 180 x 320 mm (14.6 x 7.1 x 12.6 in.)
EAN-13	7332558005675
UPC-12	845188005887
Country of origin	Sweden

**Supplies & accessories:**

- T951004ACC; Ethernet cable CAT-6, 2m/6.6 ft.
- T198349; Base support
- T198348; Cable kit Mains (UK,EU,US)
- T911112; PoE injector
- T198392; Table stand kit
- T911183; Gigabit PoE injector 16 W, with multi-plugs



---

**P/N: 64205-0102**

© 2015, FLIR Systems, Inc.  
#64205-0102; r. 25040; en-US

- T127605ACC; Cable M12 Pigtail
- T127606ACC; Cable M12 Sync
- T198342ACC; Focus adjustment tool
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player

**P/N: 62209-0101**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 62209-0101  
Commit: 25040  
Language: en-US  
Modified: 2015-04-28 09:21  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR A5 has features and functions that make it the natural choice for anyone who uses PC software to solve problems and for whom 80 × 64 pixel resolution is sufficient.

Among its main features are GigE Vision and GenICam compliance, which makes it plug-and-play when used with software packages such as IMAQ Vision and Halcon.

## Key features:

- Very affordable.
- Compact (40 mm × 43 mm × 106 mm).
- GigE Vision and GenICam compliant.
- GigE Vision lockable connector.
- PoE (power over Ethernet).
- 8-bit 80 × 64 pixel images streamed at 60 Hz, signal linear.
- 14-bit 80 × 64 pixel images streamed at 60 Hz, signal and temperature linear.
- High frame rates (60 Hz).
- Synchronization between cameras possible.
- 1x+1x GPIO.
- Compliant with any software that supports GenICam, including National Instruments IMAQ Vision, Stemmers Common Vision Blox, and COGNEX Vision Pro.

## Typical applications:

- Automation and thermal machine vision.
- Entry level "high-speed" R&D.

## Imaging and optical data

IR resolution	80 × 64 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	25° × 20°
Focal length	9 mm (0.35 in.)
Spatial resolution (IFOV)	5.56 mrad
F-number	1.25
Image frequency	60 Hz
Focus	Fixed

## Detector data

Detector type	Focal plane array (FPA), uncooled VOX microbolometer
Spectral range	7.5–13 μm
Detector pitch	50 μm
Detector time constant	Typical 12 ms

## Measurement


Object temperature range	<ul style="list-style-type: none"> <li>• -25 to +135°C (-13 to 275°F)</li> <li>• -40 to +550°C (-40 to +1022°F)</li> </ul>
Accuracy	±5°C (±9°F) or ±5% of reading

P/N: 62209-0101

© 2015, FLIR Systems, Inc.  
#62209-0101; r. 25040; en-US

Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.5 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters

Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	GigE Vision ver. 1.2 Client API GenICam compliant
Ethernet, image streaming	8-bit monochrome @ 60 Hz <ul style="list-style-type: none"> <li>Signal linear/ DDE</li> <li>Automatic/ Manual</li> <li>Flip H&amp;V</li> </ul> 14-bit 80 × 64 pixels @ 60 Hz <ul style="list-style-type: none"> <li>Signal linear/ DDE</li> <li>Temperature linear</li> </ul> GigE Vision and GenICam compatible
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0 Power
Ethernet, protocols	TCP, UDP, ICMP, IGMP, DHCP, GigEVision

Digital input/output	
Digital input, purpose	General purpose
Digital input	1× opto-isolated, "0" <2, "1" = 2–12 VDC. <div>  <b>NOTE</b>  Maximum input 12 VDC. If the input is above 12 VDC without a resistor in series there is a risk of damaging the input. If the input is 24 VDC use a 1.2 kΩ resistor in series. In that case "1" = 3–24 VDC. </div>
Digital output, purpose	General purpose output to ext. device (programmatically set)
Digital output	1× opto-isolated, 2–40 VDC, max. 185 mA
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	2–40 VDC, max. 200 mA
Digital I/O, connector type	12-pole M12 connector (shared with Digital synchronization and External power)
Synchronization in, purpose	Frame synchronization in to control camera
Synchronization in	1×, non-isolated
Synchronization in, type	LVC Buffer @3.3V, "0" <0.8 V, "1">2.0 V.
Synchronization out, purpose	Frame synchronization out to control another FLIR Ax5 camera
Synchronization out	1×, non-isolated

**P/N: 62209-0101**

© 2015, FLIR Systems, Inc.  
#62209-0101; r. 25040; en-US

<b>Digital input/output</b>	
Synchronization out, type	LVC Buffer @ 3.3V, "0"=24 MA max, "1"= -24 mA max.
Digital synchronization, connector type	12-pole M12 connector (shared with Digital I/O and External power)

<b>Power system</b>	
External power operation	12/24 VDC, < 3.5 W nominal < 6.0 W absolute max.
External power, connector type	12-pole M12 connector (shared with Digital I/O and Digital Synchronization )
Voltage	Allowed range 10–30 VDC

<b>Environmental data</b>	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> <li>• EN 61000-6-2 (Immunity)</li> <li>• EN 61000-6-3 (Emission)</li> <li>• FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 40 (IEC 60529) with base support mounted
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

<b>Physical data</b>	
Weight	0.200 kg (0.44 lb.)
Camera size (L × W × H)	106 × 40 × 43 mm (4.2 × 1.6 × 1.7 in.)
Tripod mounting	UNC ¼"-20 (on three sides)
Base mounting	4 × M3 thread mounting holes (bottom)
Housing material	Magnesium and aluminum

<b>Shipping information</b>	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• FLIR Tools download card</li> <li>• Focus adjustment tool</li> <li>• Printed documentation</li> <li>• User documentation CD-ROM</li> </ul>
Packaging, weight	
Packaging, size	295 × 200 × 105 mm (11.6 × 7.9 × 4.1 in.)
EAN-13	7332558003954 4743254000643 (Estonia plant)
UPC-12	845188003593
Country of origin	Sweden

**Supplies & accessories:**

- T951004ACC; Ethernet cable CAT-6, 2m/6.6 ft.
- T198349; Base support
- T198348; Cable kit Mains (UK,EU,US)
- T911112; PoE injector
- T198392; Table stand kit
- T911183; Gigabit PoE injector 16 W, with multi-plugs
- T127605ACC; Cable M12 Pigtail
- T127606ACC; Cable M12 Sync
- T198342ACC; Focus adjustment tool
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)



FLIR A5 f=9 mm

---

**P/N: 62209-0101**

© 2015, FLIR Systems, Inc.

#62209-0101; r. 25040; en-US

- DSW-10000; FLIR IR Camera Player

**P/N: 64209-0101**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 64209-0101  
Commit: 25040  
Language: en-US  
Modified: 2015-04-28 09:21  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR A5 has features and functions that make it the natural choice for anyone who uses PC software to solve problems and for whom 80 × 64 pixel resolution is sufficient.

Among its main features are GigE Vision and GenICam compliance, which makes it plug-and-play when used with software packages such as IMAQ Vision and Halcon.

## Key features:

- Very affordable.
- Compact (40 mm × 43 mm × 106 mm).
- GigE Vision and GenICam compliant.
- GigE Vision lockable connector.
- PoE (power over Ethernet).
- 8-bit 80 × 64 pixel images streamed at 7.5 Hz, signal linear.
- 14-bit 80 × 64 pixel images streamed at 7.5 Hz, signal and temperature linear.
- Synchronization between cameras possible.
- 1x+1x GPIO.
- Compliant with any software that supports GenICam, including National Instruments IMAQ Vision, Stemmers Common Vision Blox, and COGNEX Vision Pro.

## Typical applications:

- Automation and thermal machine vision.
- Entry level "high-speed" R&D.

## Imaging and optical data

IR resolution	80 × 64 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	25° × 20°
Focal length	9 mm (0.35 in.)
Spatial resolution (IFOV)	5.56 mrad
F-number	1.25
Image frequency	7.5 Hz
Focus	Fixed

## Detector data

Detector type	Focal plane array (FPA), uncooled VOX microbolometer
Spectral range	7.5–13 μm
Detector pitch	50 μm
Detector time constant	Typical 12 ms


## Measurement

Object temperature range	<ul style="list-style-type: none"> <li>• -25 to +135°C (-13 to 275°F)</li> <li>• -40 to +550°C (-40 to +1022°F)</li> </ul>
Accuracy	±5°C (±9°F) or ±5% of reading



P/N: 64209-0101

© 2015, FLIR Systems, Inc.  
#64209-0101; r. 25040; en-US

Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.5 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters
Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	GigE Vision ver. 1.2 Client API GenICam compliant
Ethernet, image streaming	8-bit monochrome @ 7.5 Hz <ul style="list-style-type: none"> <li>Signal linear/ DDE</li> <li>Automatic/ Manual</li> <li>Flip H&amp;V</li> </ul> 14-bit 80 × 64 pixels @ 7.5 Hz <ul style="list-style-type: none"> <li>Signal linear/ DDE</li> <li>Temperature linear</li> </ul> GigE Vision and GenICam compatible
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0 Power
Ethernet, protocols	TCP, UDP, ICMP, IGMP, DHCP, GigEVision
Digital input/output	
Digital input, purpose	General purpose
Digital input	1× opto-isolated, "0" <2, "1" = 2–12 VDC. <div>  <b>NOTE</b>  Maximum input 12 VDC. If the input is above 12 VDC without a resistor in series there is a risk of damaging the input. If the input is 24 VDC use a 1.2 kΩ resistor in series. In that case "1" = 3–24 VDC. </div>
Digital output, purpose	General purpose output to ext. device (programmatically set)
Digital output	1× opto-isolated, 2–40 VDC, max. 185 mA
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	2–40 VDC, max. 200 mA
Digital I/O, connector type	12-pole M12 connector (shared with Digital synchronization and External power)
Synchronization in, purpose	Frame synchronization in to control camera
Synchronization in	1×, non-isolated
Synchronization in, type	LVC Buffer @3.3V, "0" <0.8 V, "1">2.0 V.
Synchronization out, purpose	Frame synchronization out to control another FLIR Ax5 camera
Synchronization out	1×, non-isolated

**P/N: 64209-0101**

 © 2015, FLIR Systems, Inc.  
 #64209-0101; r. 25040; en-US

<b>Digital input/output</b>	
Synchronization out, type	LVC Buffer @ 3.3V, "0"=24 MA max, "1"= -24 mA max.
Digital synchronization, connector type	12-pole M12 connector (shared with Digital I/O and External power)

<b>Power system</b>	
External power operation	12/24 VDC, < 3.5 W nominal < 6.0 W absolute max.
External power, connector type	12-pole M12 connector (shared with Digital I/O and Digital Synchronization )
Voltage	Allowed range 10–30 VDC

<b>Environmental data</b>	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> <li>• EN 61000-6-2 (Immunity)</li> <li>• EN 61000-6-3 (Emission)</li> <li>• FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 40 (IEC 60529) with base support mounted
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

<b>Physical data</b>	
Weight	0.200 kg (0.44 lb.)
Camera size (L x W x H)	106 x 40 x 43 mm (4.2 x 1.6 x 1.7 in.)
Tripod mounting	UNC ¼"-20 (on three sides)
Base mounting	4 x M3 thread mounting holes (bottom)
Housing material	Magnesium and aluminum

<b>Shipping information</b>	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• FLIR Tools download card</li> <li>• Focus adjustment tool</li> <li>• Printed documentation</li> <li>• User documentation CD-ROM</li> </ul>
Packaging, weight	
Packaging, size	295 x 200 x 105 mm (11.6 x 7.9 x 4.1 in.)
EAN-13	7332558005637
UPC-12	845188005849
Country of origin	Sweden

**Supplies & accessories:**

- T951004ACC; Ethernet cable CAT-6, 2m/6.6 ft.
- T198349; Base support
- T198348; Cable kit Mains (UK,EU,US)
- T911112; PoE injector
- T198392; Table stand kit
- T911183; Gigabit PoE injector 16 W, with multi-plugs
- T127605ACC; Cable M12 Pigtail
- T127606ACC; Cable M12 Sync
- T198342ACC; Focus adjustment tool
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player

**P/N: 62613-0101**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 62613-0101  
Commit: 25040  
Language: en-US  
Modified: 2015-04-28 09:21  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR A65 has features and functions that make it the natural choice for anyone who uses PC software to solve problems and for whom 640 × 512 pixel resolution is sufficient.

Among its main features are GigE Vision and GenICam compliance, which makes it plug-and-play when used with software packages such as IMAQ Vision and Halcon.

## Key features:

- Very affordable.
- Compact (40 mm × 43 mm × 106 mm).
- GigE Vision and GenICam compliant.
- GigE Vision lockable connector.
- PoE (power over Ethernet).
- 8-bit 640 × 512 pixel images streamed at 30 Hz, signal linear
- 14-bit 640 × 512 pixel images streamed at 30 Hz, signal and temperature linear
- Synchronization between cameras possible.
- 1x+1x GPIO.
- Compliant with any software that supports GenICam, including National Instruments IMAQ Vision, Stemmers Common Vision Blox, and COGNEX Vision Pro.

## Typical applications:

- Automation and thermal machine vision.
- Entry level "high-speed" R&D.

## Imaging and optical data

IR resolution	640 × 512 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	45° × 37°
Focal length	13 mm (0.5 in.)
Spatial resolution (IFOV)	1.31 mrad
F-number	1.25
Image frequency	30 Hz
Focus	Fixed

## Detector data

Detector type	Focal plane array (FPA), uncooled VOX microbolometer
Spectral range	7.5–13 μm
Detector pitch	17 μm
Detector time constant	Typical 12 ms

## Measurement


Object temperature range	–25 to +135°C (–13 to 275°F)
Accuracy	±5°C (±9°F) or ±5% of reading

P/N: 62613-0101

© 2015, FLIR Systems, Inc.  
#62613-0101; r. 25040; en-US

Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.5 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters

Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	GigE Vision ver. 1.2 Client API GenICam compliant
Ethernet, image streaming	8-bit monochrome @ 30 Hz <ul style="list-style-type: none"> <li>Signal linear/ DDE</li> <li>Automatic/ Manual</li> <li>Flip H&amp;V</li> </ul> 14-bit 640 × 512 pixels @ 30 Hz <ul style="list-style-type: none"> <li>Signal linear/ DDE</li> <li>Temperature linear</li> </ul> GigE Vision and GenICam compatible
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0 Power
Ethernet, protocols	TCP, UDP, ICMP, IGMP, DHCP, GigEVision

Digital input/output	
Digital input, purpose	General purpose
Digital input	1× opto-isolated, "0" <2, "1" = 2–12 VDC. <div>  <b>NOTE</b>  Maximum input 12 VDC. If the input is above 12 VDC without a resistor in series there is a risk of damaging the input. If the input is 24 VDC use a 1.2 kΩ resistor in series. In that case "1" = 3–24 VDC. </div>
Digital output, purpose	General purpose output to ext. device (programmatically set)
Digital output	1× opto-isolated, 2–40 VDC, max. 185 mA
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	2–40 VDC, max. 200 mA
Digital I/O, connector type	12-pole M12 connector (shared with Digital synchronization and External power)
Synchronization in, purpose	Frame synchronization in to control camera
Synchronization in	1×, non-isolated
Synchronization in, type	LVC Buffer @3.3V, "0" <0.8 V, "1">2.0 V.
Synchronization out, purpose	Frame synchronization out to control another FLIR Ax5 camera
Synchronization out	1×, non-isolated

**P/N: 62613-0101**

© 2015, FLIR Systems, Inc.  
#62613-0101; r. 25040; en-US

<b>Digital input/output</b>	
Synchronization out, type	LVC Buffer @ 3.3V, "0"=24 MA max, "1"= -24 mA max.
Digital synchronization, connector type	12-pole M12 connector (shared with Digital I/O and External power)

<b>Power system</b>	
External power operation	12/24 VDC, < 3.5 W nominal < 6.0 W absolute max.
External power, connector type	12-pole M12 connector (shared with Digital I/O and Digital Synchronization )
Voltage	Allowed range 10–30 VDC

<b>Environmental data</b>	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> <li>• EN 61000-6-2 (Immunity)</li> <li>• EN 61000-6-3 (Emission)</li> <li>• FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 40 (IEC 60529) with base support mounted
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

<b>Physical data</b>	
Weight	0.200 kg (0.44 lb.)
Camera size (L x W x H)	106 x 40 x 43 mm (4.2 x 1.6 x 1.7 in.)
Tripod mounting	UNC ¼"-20 (on three sides)
Base mounting	4 x M3 thread mounting holes (bottom)
Housing material	Magnesium and aluminum

<b>Shipping information</b>	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• FLIR Tools download card</li> <li>• Focus adjustment tool</li> <li>• Printed documentation</li> <li>• User documentation CD-ROM</li> </ul>
Packaging, weight	
Packaging, size	295 x 200 x 105 mm (11.6 x 7.9 x 4.1 in.)
EAN-13	7332558005460
UPC-12	845188005665
Country of origin	Estonia

**Supplies & accessories:**

- T951004ACC; Ethernet cable CAT-6, 2m/6.6 ft.
- T198349; Base support
- T198348; Cable kit Mains (UK,EU,US)
- T911112; PoE injector
- T198392; Table stand kit
- T911183; Gigabit PoE injector 16 W, with multi-plugs
- T127605ACC; Cable M12 Pigtail
- T127606ACC; Cable M12 Sync
- T198342ACC; Focus adjustment tool
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player

**P/N: 62513-0101**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 62513-0101  
Commit: 25040  
Language: en-US  
Modified: 2015-04-28 09:21  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR A65 has features and functions that make it the natural choice for anyone who uses PC software to solve problems and for whom 640 × 512 pixel resolution is sufficient.

Among its main features are GigE Vision and GenICam compliance, which makes it plug-and-play when used with software packages such as IMAQ Vision and Halcon.

## Key features:

- Very affordable.
- Compact (40 mm × 43 mm × 106 mm).
- GigE Vision and GenICam compliant.
- GigE Vision lockable connector.
- PoE (power over Ethernet).
- 8-bit 640 × 512 pixel images streamed at 7.5 Hz, signal linear
- 14-bit 640 × 512 pixel images streamed at 7.5 Hz, signal and temperature linear
- Synchronization between cameras possible.
- 1x+1x GPIO.
- Compliant with any software that supports GenICam, including National Instruments IMAQ Vision, Stemmers Common Vision Blox, and COGNEX Vision Pro.

## Typical applications:

- Automation and thermal machine vision.
- Entry level "high-speed" R&D.

## Imaging and optical data

IR resolution	640 × 512 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	45° × 37°
Focal length	13 mm (0.5 in.)
Spatial resolution (IFOV)	1.31 mrad
F-number	1.25
Image frequency	7.5 Hz
Focus	Fixed

## Detector data

Detector type	Focal plane array (FPA), uncooled VOX microbolometer
Spectral range	7.5–13 μm
Detector pitch	17 μm
Detector time constant	Typical 12 ms

## Measurement


Object temperature range	–25 to +135°C (–13 to 275°F)
Accuracy	±5°C (±9°F) or ±5% of reading

P/N: 62513-0101

© 2015, FLIR Systems, Inc.  
#62513-0101; r. 25040; en-US

Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.5 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters

Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	GigE Vision ver. 1.2 Client API GenICam compliant
Ethernet, image streaming	8-bit monochrome @ 7.5 Hz <ul style="list-style-type: none"> <li>Signal linear/ DDE</li> <li>Automatic/ Manual</li> <li>Flip H&amp;V</li> </ul> 14-bit 640 × 512 pixels @ 7.5 Hz <ul style="list-style-type: none"> <li>Signal linear/ DDE</li> <li>Temperature linear</li> </ul> GigE Vision and GenICam compatible
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0 Power
Ethernet, protocols	TCP, UDP, ICMP, IGMP, DHCP, GigEVision

Digital input/output	
Digital input, purpose	General purpose
Digital input	1× opto-isolated, "0" <2, "1" = 2–12 VDC. <div>  <b>NOTE</b>  Maximum input 12 VDC. If the input is above 12 VDC without a resistor in series there is a risk of damaging the input. If the input is 24 VDC use a 1.2 kΩ resistor in series. In that case "1" = 3–24 VDC. </div>
Digital output, purpose	General purpose output to ext. device (programmatically set)
Digital output	1× opto-isolated, 2–40 VDC, max. 185 mA
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	2–40 VDC, max. 200 mA
Digital I/O, connector type	12-pole M12 connector (shared with Digital synchronization and External power)
Synchronization in, purpose	Frame synchronization in to control camera
Synchronization in	1×, non-isolated
Synchronization in, type	LVC Buffer @3.3V, "0" <0.8 V, "1">2.0 V.
Synchronization out, purpose	Frame synchronization out to control another FLIR Ax5 camera
Synchronization out	1×, non-isolated

**P/N: 62513-0101**

© 2015, FLIR Systems, Inc.  
#62513-0101; r. 25040; en-US

<b>Digital input/output</b>	
Synchronization out, type	LVC Buffer @ 3.3V, "0"=24 MA max, "1"= -24 mA max.
Digital synchronization, connector type	12-pole M12 connector (shared with Digital I/O and External power)

<b>Power system</b>	
External power operation	12/24 VDC, < 3.5 W nominal < 6.0 W absolute max.
External power, connector type	12-pole M12 connector (shared with Digital I/O and Digital Synchronization )
Voltage	Allowed range 10–30 VDC

<b>Environmental data</b>	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> <li>• EN 61000-6-2 (Immunity)</li> <li>• EN 61000-6-3 (Emission)</li> <li>• FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 40 (IEC 60529) with base support mounted
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

<b>Physical data</b>	
Weight	0.200 kg (0.44 lb.)
Camera size (L × W × H)	106 × 40 × 43 mm (4.2 × 1.6 × 1.7 in.)
Tripod mounting	UNC ¼"-20 (on three sides)
Base mounting	4 × M3 thread mounting holes (bottom)
Housing material	Magnesium and aluminum

<b>Shipping information</b>	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• FLIR Tools download card</li> <li>• Focus adjustment tool</li> <li>• Printed documentation</li> <li>• User documentation CD-ROM</li> </ul>
Packaging, weight	
Packaging, size	295 × 200 × 105 mm (11.6 × 7.9 × 4.1 in.)
EAN-13	7332558004067 4743254000537 (Estonia plant)
UPC-12	845188003623
Country of origin	Sweden

**Supplies & accessories:**

- T951004ACC; Ethernet cable CAT-6, 2m/6.6 ft.
- T198349; Base support
- T198348; Cable kit Mains (UK,EU,US)
- T911112; PoE injector
- T198392; Table stand kit
- T911183; Gigabit PoE injector 16 W, with multi-plugs
- T127605ACC; Cable M12 Pigtail
- T127606ACC; Cable M12 Sync
- T198342ACC; Focus adjustment tool
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)





FLIR A65 f=13 mm (7.5 Hz)

---

**P/N: 62513-0101**

© 2015, FLIR Systems, Inc.  
#62513-0101; r. 25040; en-US

- DSW-10000; FLIR IR Camera Player

**P/N: 62513-0102**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 62513-0102  
Commit: 25040  
Language: en-US  
Modified: 2015-04-28 09:21  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR A65 has features and functions that make it the natural choice for anyone who uses PC software to solve problems and for whom 640 × 512 pixel resolution is sufficient.

Among its main features are GigE Vision and GenICam compliance, which makes it plug-and-play when used with software packages such as IMAQ Vision and Halcon.

## Key features:

- Very affordable.
- Compact (40 mm × 43 mm × 106 mm).
- GigE Vision and GenICam compliant.
- GigE Vision lockable connector.
- PoE (power over Ethernet).
- 8-bit 640 × 512 pixel images streamed at 7.5 Hz, signal linear
- 14-bit 640 × 512 pixel images streamed at 7.5 Hz, signal and temperature linear
- Synchronization between cameras possible.
- 1x+1x GPIO.
- Compliant with any software that supports GenICam, including National Instruments IMAQ Vision, Stemmers Common Vision Blox, and COGNEX Vision Pro.

## Typical applications:

- Automation and thermal machine vision.
- Entry level "high-speed" R&D.

## Imaging and optical data

IR resolution	640 × 512 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	45° × 37°
Focal length	13 mm (0.5 in.)
Spatial resolution (IFOV)	1.31 mrad
F-number	1.25
Image frequency	7.5 Hz
Focus	Fixed

## Detector data

Detector type	Focal plane array (FPA), uncooled VOX microbolometer
Spectral range	7.5–13 μm
Detector pitch	17 μm
Detector time constant	Typical 12 ms

## Measurement


Object temperature range	–25 to +135°C (–13 to 275°F)
Accuracy	±5°C (±9°F) or ±5% of reading

P/N: 62513-0102

© 2015, FLIR Systems, Inc.  
#62513-0102; r. 25040; en-US

Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.5 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters

Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	GigE Vision ver. 1.2 Client API GenICam compliant
Ethernet, image streaming	8-bit monochrome @ 7.5 Hz <ul style="list-style-type: none"> <li>Signal linear/ DDE</li> <li>Automatic/ Manual</li> <li>Flip H&amp;V</li> </ul> 14-bit 640 × 512 pixels @ 7.5 Hz <ul style="list-style-type: none"> <li>Signal linear/ DDE</li> <li>Temperature linear</li> </ul> GigE Vision and GenICam compatible
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0 Power
Ethernet, protocols	TCP, UDP, ICMP, IGMP, DHCP, GigEVision

Digital input/output	
Digital input, purpose	General purpose
Digital input	1× opto-isolated, "0" <2, "1" = 2–12 VDC. <div>  <b>NOTE</b>  Maximum input 12 VDC. If the input is above 12 VDC without a resistor in series there is a risk of damaging the input. If the input is 24 VDC use a 1.2 kΩ resistor in series. In that case "1" = 3–24 VDC. </div>
Digital output, purpose	General purpose output to ext. device (programmatically set)
Digital output	1× opto-isolated, 2–40 VDC, max. 185 mA
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	2–40 VDC, max. 200 mA
Digital I/O, connector type	12-pole M12 connector (shared with Digital synchronization and External power)
Synchronization in, purpose	Frame synchronization in to control camera
Synchronization in	1×, non-isolated
Synchronization in, type	LVC Buffer @3.3V, "0" <0.8 V, "1">2.0 V.
Synchronization out, purpose	Frame synchronization out to control another FLIR Ax5 camera
Synchronization out	1×, non-isolated

**P/N: 62513-0102**

© 2015, FLIR Systems, Inc.  
#62513-0102; r. 25040; en-US

<b>Digital input/output</b>	
Synchronization out, type	LVC Buffer @ 3.3V, "0"=24 MA max, "1"= -24 mA max.
Digital synchronization, connector type	12-pole M12 connector (shared with Digital I/O and External power)
<b>Power system</b>	
External power operation	12/24 VDC, < 3.5 W nominal < 6.0 W absolute max.
External power, connector type	12-pole M12 connector (shared with Digital I/O and Digital Synchronization )
Voltage	Allowed range 10–30 VDC
<b>Environmental data</b>	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> <li>• EN 61000-6-2 (Immunity)</li> <li>• EN 61000-6-3 (Emission)</li> <li>• FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 40 (IEC 60529) with base support mounted
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
<b>Physical data</b>	
Weight	0.200 kg (0.44 lb.)
Camera size (L x W x H)	106 x 40 x 43 mm (4.2 x 1.6 x 1.7 in.)
Tripod mounting	UNC ¼"-20 (on three sides)
Base mounting	4 x M3 thread mounting holes (bottom)
Housing material	Magnesium and aluminum
<b>Shipping information</b>	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Hard transport case</li> <li>• Infrared camera with lens</li> <li>• Base support</li> <li>• Cable tie (2 ea.)</li> <li>• Ethernet cable CAT-6, 2m/6.6 ft (2 ea.)</li> <li>• FLIR ResearchIR Standard 4</li> <li>• Focus adjustment tool</li> <li>• Gooseneck</li> <li>• Mains cable kit (UK,EU,US)</li> <li>• PoE Injector (power over Ethernet)</li> <li>• Printed documentation</li> <li>• Table stand</li> <li>• User documentation CD-ROM</li> </ul>
Packaging, weight	5.3 kg (11.7 lb.)
Packaging, size	370 x 180 x 320 mm (14.6 x 7.1 x 12.6 in.)
EAN-13	7332558008492
UPC-12	845188008857
Country of origin	Sweden

**Supplies & accessories:**

- T951004ACC; Ethernet cable CAT-6, 2m/6.6 ft.
- T198349; Base support
- T198348; Cable kit Mains (UK,EU,US)
- T911112; PoE injector
- T198392; Table stand kit
- T911183; Gigabit PoE injector 16 W, with multi-plugs



---

**P/N: 62513-0102**

© 2015, FLIR Systems, Inc.  
#62513-0102; r. 25040; en-US

- T127605ACC; Cable M12 Pigtail
- T127606ACC; Cable M12 Sync
- T198342ACC; Focus adjustment tool
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player

**P/N: 62625-0101**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 62625-0101  
Commit: 25040  
Language: en-US  
Modified: 2015-04-28 09:21  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR A65 has features and functions that make it the natural choice for anyone who uses PC software to solve problems and for whom 640 × 512 pixel resolution is sufficient.

Among its main features are GigE Vision and GenICam compliance, which makes it plug-and-play when used with software packages such as IMAQ Vision and Halcon.

## Key features:

- Very affordable.
- Compact (40 mm × 43 mm × 106 mm).
- GigE Vision and GenICam compliant.
- GigE Vision lockable connector.
- PoE (power over Ethernet).
- 8-bit 640 × 512 pixel images streamed at 30 Hz, signal linear
- 14-bit 640 × 512 pixel images streamed at 30 Hz, signal and temperature linear
- Synchronization between cameras possible.
- 1x+1x GPIO.
- Compliant with any software that supports GenICam, including National Instruments IMAQ Vision, Stemmers Common Vision Blox, and COGNEX Vision Pro.

## Typical applications:

- Automation and thermal machine vision.
- Entry level "high-speed" R&D.

## Imaging and optical data

IR resolution	640 × 512 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	25° × 20°
Focal length	25 mm (0.98 in.)
Spatial resolution (IFOV)	0.68 mrad
F-number	1.25
Image frequency	30 Hz
Focus	Fixed

## Detector data

Detector type	Focal plane array (FPA), uncooled VOX microbolometer
Spectral range	7.5–13 μm
Detector pitch	17 μm
Detector time constant	Typical 12 ms

## Measurement


Object temperature range	–25 to +135°C (–13 to 275°F)
Accuracy	±5°C (±9°F) or ±5% of reading

P/N: 62625-0101

© 2015, FLIR Systems, Inc.  
#62625-0101; r. 25040; en-US

Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.5 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters

Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	GigE Vision ver. 1.2 Client API GenICam compliant
Ethernet, image streaming	8-bit monochrome @ 30 Hz <ul style="list-style-type: none"> <li>Signal linear/ DDE</li> <li>Automatic/ Manual</li> <li>Flip H&amp;V</li> </ul> 14-bit 640 × 512 pixels @ 30 Hz <ul style="list-style-type: none"> <li>Signal linear/ DDE</li> <li>Temperature linear</li> </ul> GigE Vision and GenICam compatible
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0 Power
Ethernet, protocols	TCP, UDP, ICMP, IGMP, DHCP, GigEVision

Digital input/output	
Digital input, purpose	General purpose
Digital input	1× opto-isolated, "0" <2, "1" = 2–12 VDC. <div>  <b>NOTE</b>  Maximum input 12 VDC. If the input is above 12 VDC without a resistor in series there is a risk of damaging the input. If the input is 24 VDC use a 1.2 kΩ resistor in series. In that case "1" = 3–24 VDC. </div>
Digital output, purpose	General purpose output to ext. device (programmatically set)
Digital output	1× opto-isolated, 2–40 VDC, max. 185 mA
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	2–40 VDC, max. 200 mA
Digital I/O, connector type	12-pole M12 connector (shared with Digital synchronization and External power)
Synchronization in, purpose	Frame synchronization in to control camera
Synchronization in	1×, non-isolated
Synchronization in, type	LVC Buffer @3.3V, "0" <0.8 V, "1">2.0 V.
Synchronization out, purpose	Frame synchronization out to control another FLIR Ax5 camera
Synchronization out	1×, non-isolated

**P/N: 62625-0101**

© 2015, FLIR Systems, Inc.  
#62625-0101; r. 25040; en-US

Digital input/output	
Synchronization out, type	LVC Buffer @ 3.3V, "0"=24 MA max, "1"= -24 mA max.
Digital synchronization, connector type	12-pole M12 connector (shared with Digital I/O and External power)

Power system	
External power operation	12/24 VDC, < 3.5 W nominal < 6.0 W absolute max.
External power, connector type	12-pole M12 connector (shared with Digital I/O and Digital Synchronization )
Voltage	Allowed range 10–30 VDC

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> <li>• EN 61000-6-2 (Immunity)</li> <li>• EN 61000-6-3 (Emission)</li> <li>• FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 40 (IEC 60529) with base support mounted
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	0.200 kg (0.44 lb.)
Camera size (L × W × H)	106 × 40 × 43 mm (4.2 × 1.6 × 1.7 in.)
Tripod mounting	UNC ¼"-20 (on three sides)
Base mounting	4 × M3 thread mounting holes (bottom)
Housing material	Magnesium and aluminum

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• FLIR Tools download card</li> <li>• Printed documentation</li> <li>• User documentation CD-ROM</li> </ul>
Packaging, weight	
Packaging, size	295 × 200 × 105 mm (11.6 × 7.9 × 4.1 in.)
EAN-13	7332558005453
UPC-12	845188005658
Country of origin	Sweden

**Supplies & accessories:**

- T951004ACC; Ethernet cable CAT-6, 2m/6.6 ft.
- T198349; Base support
- T198348; Cable kit Mains (UK,EU,US)
- T911112; PoE injector
- T198392; Table stand kit
- T911183; Gigabit PoE injector 16 W, with multi-plugs
- T127605ACC; Cable M12 Pigtail
- T127606ACC; Cable M12 Sync
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player



**P/N: 62525-0101**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 62525-0101  
Commit: 25040  
Language: en-US  
Modified: 2015-04-28 09:21  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR A65 has features and functions that make it the natural choice for anyone who uses PC software to solve problems and for whom 640 × 512 pixel resolution is sufficient.

Among its main features are GigE Vision and GenICam compliance, which makes it plug-and-play when used with software packages such as IMAQ Vision and Halcon.

## Key features:

- Very affordable.
- Compact (40 mm × 43 mm × 106 mm).
- GigE Vision and GenICam compliant.
- GigE Vision lockable connector.
- PoE (power over Ethernet).
- 8-bit 640 × 512 pixel images streamed at 7.5 Hz, signal linear
- 14-bit 640 × 512 pixel images streamed at 7.5 Hz, signal and temperature linear
- Synchronization between cameras possible.
- 1x+1x GPIO.
- Compliant with any software that supports GenICam, including National Instruments IMAQ Vision, Stemmers Common Vision Blox, and COGNEX Vision Pro.

## Typical applications:

- Automation and thermal machine vision.
- Entry level "high-speed" R&D.

## Imaging and optical data

IR resolution	640 × 512 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	25° × 20°
Focal length	25 mm (0.98 in.)
Spatial resolution (IFOV)	0.68 mrad
F-number	1.25
Image frequency	7.5 Hz
Focus	Fixed

## Detector data


Detector type	Focal plane array (FPA), uncooled VOX microbolometer
Spectral range	7.5–13 μm
Detector pitch	17 μm
Detector time constant	Typical 12 ms

## Measurement

Object temperature range	–25 to +135°C (–13 to 275°F)
Accuracy	±5°C (±9°F) or ±5% of reading

P/N: 62525-0101

© 2015, FLIR Systems, Inc.  
#62525-0101; r. 25040; en-US

Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.5 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters
Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	GigE Vision ver. 1.2 Client API GenICam compliant
Ethernet, image streaming	8-bit monochrome @ 7.5 Hz <ul style="list-style-type: none"> <li>Signal linear/ DDE</li> <li>Automatic/ Manual</li> <li>Flip H&amp;V</li> </ul> 14-bit 640 × 512 pixels @ 7.5 Hz <ul style="list-style-type: none"> <li>Signal linear/ DDE</li> <li>Temperature linear</li> </ul> GigE Vision and GenICam compatible
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0 Power
Ethernet, protocols	TCP, UDP, ICMP, IGMP, DHCP, GigEVision
Digital input/output	
Digital input, purpose	General purpose
Digital input	1× opto-isolated, "0" <2, "1" = 2–12 VDC. <div>  <b>NOTE</b>  Maximum input 12 VDC. If the input is above 12 VDC without a resistor in series there is a risk of damaging the input. If the input is 24 VDC use a 1.2 kΩ resistor in series. In that case "1" = 3–24 VDC. </div>
Digital output, purpose	General purpose output to ext. device (programmatically set)
Digital output	1× opto-isolated, 2–40 VDC, max. 185 mA
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	2–40 VDC, max. 200 mA
Digital I/O, connector type	12-pole M12 connector (shared with Digital synchronization and External power)
Synchronization in, purpose	Frame synchronization in to control camera
Synchronization in	1×, non-isolated
Synchronization in, type	LVC Buffer @3.3V, "0" <0.8 V, "1">2.0 V.
Synchronization out, purpose	Frame synchronization out to control another FLIR Ax5 camera
Synchronization out	1×, non-isolated

**P/N: 62525-0101**

© 2015, FLIR Systems, Inc.  
#62525-0101; r. 25040; en-US

<b>Digital input/output</b>	
Synchronization out, type	LVC Buffer @ 3.3V, "0"=24 MA max, "1"= -24 mA max.
Digital synchronization, connector type	12-pole M12 connector (shared with Digital I/O and External power)

<b>Power system</b>	
External power operation	12/24 VDC, < 3.5 W nominal < 6.0 W absolute max.
External power, connector type	12-pole M12 connector (shared with Digital I/O and Digital Synchronization )
Voltage	Allowed range 10–30 VDC

<b>Environmental data</b>	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> <li>• EN 61000-6-2 (Immunity)</li> <li>• EN 61000-6-3 (Emission)</li> <li>• FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 40 (IEC 60529) with base support mounted
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

<b>Physical data</b>	
Weight	0.200 kg (0.44 lb.)
Camera size (L × W × H)	106 × 40 × 43 mm (4.2 × 1.6 × 1.7 in.)
Tripod mounting	UNC ¼"-20 (on three sides)
Base mounting	4 × M3 thread mounting holes (bottom)
Housing material	Magnesium and aluminum

<b>Shipping information</b>	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• FLIR Tools download card</li> <li>• Printed documentation</li> <li>• User documentation CD-ROM</li> </ul>
Packaging, weight	
Packaging, size	295 × 200 × 105 mm (11.6 × 7.9 × 4.1 in.)
EAN-13	7332558004074 4743254000544 (Estonia plant)
UPC-12	845188003630
Country of origin	Sweden

**Supplies & accessories:**

- T951004ACC; Ethernet cable CAT-6, 2m/6.6 ft.
- T198349; Base support
- T198348; Cable kit Mains (UK,EU,US)
- T911112; PoE injector
- T198392; Table stand kit
- T911183; Gigabit PoE injector 16 W, with multi-plugs
- T127605ACC; Cable M12 Pigtail
- T127606ACC; Cable M12 Sync
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player

# FLIR AX series

---

## P/N: 71201-0101

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 71201-0101  
Commit: 25002  
Language: en-US  
Modified: 2015-04-24 14:41  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The FLIR AX8 camera/sensor provides an affordable and accurate temperature measurement solution for anyone who needs to solve problems that need built in "smartness" such as analysis, alarm functionality, and autonomous communication using standard protocols. The FLIR AX8 also has all the necessary features and functions to build distributed single- or multi-camera solutions utilizing standard Ethernet hardware and software protocols.

The FLIR AX8 also has built-in support to connect to industrial control equipment such as PLCs, and allows the sharing of analysis and alarm results and simple control using the Ethernet/IP and Modbus TCP field bus protocols.

#### Key features:

- Support for the Ethernet/IP field bus protocol (analyze, alarm, and simple camera control).
- Support for the Modbus TCP field bus protocol (analyze, alarm, and simple camera control).
- Built-in analysis functionality.
- Alarm functionality, as a function of analysis and more.
- Built-in web server for control and set up.
- MJPEG, MPEG-4, or H.264 image streaming.
- PoE (Power over Ethernet).
- General-purpose output.
- 100 Mbps Ethernet (100 m cable).
- On alarm: file sending (FTP) or e-mail (SMTP) of analysis results or images.

#### Typical applications:

- Electrical and mechanical condition-monitoring applications where temperature or temperature trends can be an indication of a potential risk of failure.
- Simple process control applications.

### Imaging and optical data

IR resolution	80 × 60 pixels
Thermal sensitivity/NETD	< 0.10°C @ +30°C (+86°F) / 100 mK
Field of view (FOV)	48° × 37°
Depth of field	0.1 m (0.33 ft.), infinity
Focal length	1.54 mm (0.061 in.)
Spatial resolution (IFOV)	11.1 mrad
F-number	1.1

P/N: 71201-0101

© 2015, FLIR Systems, Inc.  
#71201-0101; r. 25002; en-US

Imaging and optical data	
Image frequency	9 Hz
Focus	Fixed
Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 $\mu\text{m}$
Detector pitch	17 $\mu\text{m}$
Detector time constant	Typical 12 ms
Visual camera	
Built-in digital camera	640 × 480
Digital camera, FOV	Adapts to the IR lens
Sensitivity	Minimum 10 lux without illuminator
Measurement	
Object temperature range	–10 to +150°C (14 to +302°F)
Accuracy	$\pm 2^\circ\text{C}$ ( $\pm 3.6^\circ\text{F}$ ) or $\pm 2\%$ of reading (+10 to +100°C @ +10 to +35°C ambient)
Measurement analysis	
Spotmeter	6
Area	6 boxes with max./min./average
Automatic hot/cold detection	Max./min. temperature value and position shown within box
Measurement presets	Yes
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters
Alarm	
Alarm functions	Automatic alarms on any selected measurement function. A maximum of 5 alarms can be set.
Alarm output	Digital out, store image, file sending (FTP), email (SMTP), notification
Set-up	
Color palettes	Color palettes (BW, BW inv, Iron, Rain)
Set-up commands	Date/time, Temperature (°C/°F)
Web interface	Yes
Storage of images	
Storage media	Built-in memory for image storage
Image storage mode	IR, visual, MSX
File formats	JPEG + FFF

P/N: 71201-0101

© 2015, FLIR Systems, Inc.  
#71201-0101; r. 25002; en-US

Image streaming	
Image streaming formats	<ul style="list-style-type: none"> <li>• Motion JPEG stream MJPEG Baseline Process Encoder Baseline ISO/IEC 10918-1 JPEG compliance</li> <li>• MPEG stream Stream format MPEG-4 ISO/IEC 14496-2 Simple Profile level 2</li> <li>• H.264 stream Stream format H.264 Baseline Profile level 2.0</li> </ul>
Image streaming resolution	640 × 480
Image modes	<ul style="list-style-type: none"> <li>• Thermal</li> <li>• Visual</li> <li>• MSX</li> </ul>
Automatic image adjustment	Continuous
Multi Spectral Dynamic Imaging (MSX)	IR image with enhanced detail presentation
Ethernet	
Ethernet	Control, result and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	M12 8-pin X-coded
Ethernet, communication	TCP/IP socket-based FLIR proprietary
Ethernet, video streaming	Yes
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 2.
Ethernet, protocols	Ethernet/IP, Modbus TCP, TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, sftp, SMTP, DHCP, MDNS (Bonjour)
Power system	
External power operation	12/24 VDC, 2 W continuously/ 4.7 W absolute max
External power, connector type	M12 8-pin A-coded (Shared with digital I/O)
Voltage	Allowed range 10.8–30 VDC
Environmental data	
Operating temperature range	–0°C to +50°C (+32°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F) according to IEC 68-2-1 and IEC 68-2-2
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)/ 2 cycles
EMC	<ul style="list-style-type: none"> <li>• EN 61000-6-2:2001 (Immunity)</li> <li>• EN 61000-6-3:2001 (Emission)</li> <li>• FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 67 (IEC 60529)
Bump	25 g (IEC 60068-2-29)
Vibration	2 g (IEC 60068-2-6)
Physical data	
Weight	0.125 kg (0.28 lb.)
Camera size (L × W × H)	<ul style="list-style-type: none"> <li>• 54 × 25 × 79 mm (2.1 × 1 × 3.1 in.) without connectors</li> <li>• 54 × 25 × 95 mm (2.1 × 1 × 3.7 in.) with connectors</li> </ul>
Base mounting	4× mounting hole depth max 4.8 mm for screw type Delta PT 22 (ø2.2 mm)
Housing material	PA6 with 30% GF (glass fiber reinforced)



**P/N: 71201-0101**

© 2015, FLIR Systems, Inc.  
#71201-0101; r. 25002; en-US

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"><li>• Infrared camera with lens</li><li>• Cardboard box</li><li>• Printed documentation</li><li>• User documentation CD-ROM</li></ul>
EAN-13	4743254001725
UPC-12	845188009373
Country of origin	Estonia

**Supplies & accessories:**

- T128391ACC; Cable, M12 to pigtail (FLIR AX series)
- T128390ACC; Ethernet cable, M12 to RJ45
- T199019; PoE injector, incl. cables
- T198821; Cooling bracket



# FLIR A3xx series

---

## P/N: 48201-1001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 48201-1001  
Commit: 24651  
Language: en-US  
Modified: 2015-04-10 08:45  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The FLIR A300 offers an affordable and accurate temperature measurement solution for anyone who needs to solve problems that do not call for the highest speed or reaction and who uses a PC. Due to its composite video output, it is also an excellent choice for thermal image automation applications, where you can utilize its unique properties such as looking through steam.

#### Key features:

- MPEG-4 streaming.
- PoE (Power over Ethernet).
- Built-in web server.
- General purpose I/O.
- 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.).
- Synchronization through SNTP.
- Composite video output.
- Multi-camera utility software: FLIR IP Config and FLIR IR Monitor included.
- Open and well-described TCP/IP protocol for control and set-up.
- 16-bit 320 × 240 pixel images at 3 Hz, radiometric.
- Lenses: 25° included, 15° and 45° optional.

#### Typical applications:

- Fire prevention, critical vessel monitoring, and power utility asset management.
- Volume-oriented industrial control (multi-camera installation is possible).

### Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	25° × 18.8°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
Spatial resolution (IFOV)	1.36 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	30 Hz
Focus	Automatic or manual (built in motor)
Zoom	1–8× continuous, digital, interpolating zooming on images

### Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm
Detector pitch	25 μm
Detector time constant	Typical 12 ms


**P/N: 48201-1001**

© 2015, FLIR Systems, Inc.  
#48201-1001; r. 24651; en-US

Measurement	
Object temperature range	<ul style="list-style-type: none"> <li>• -20 to +120°C (-4 to +248°F)</li> <li>• 0 to +350°C (+32 to +662°F)</li> </ul>
Accuracy	±2°C (±3.6°F) or ±2% of reading

Set-up	
Color palettes	Color palettes (BW, BW inv, Iron, Rain)
Set-up commands	Date/time, Temperature (°C/°F)

Storage of images	
Storage media	Built-in memory for image storage
File formats	Standard JPEG, 16-bit measurement data included

Ethernet	
Ethernet	Control and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary
Ethernet, video streaming	MPEG-4, ISO/IEC 14496-1 MPEG-4 ASP@L5
Ethernet, image streaming	16-bit 320 × 240 pixels @ 3 Hz <ul style="list-style-type: none"> <li>• Radiometric</li> </ul>
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0. <div>  <b>NOTE</b>            In cameras manufactured before 2013, due to an error in the implementation of power over Ethernet, in some rare cases the camera will not be powered. In such cases, power the camera using the external power cable, or modify the camera according to Service bulletin SB14-006. For modification, please contact your local service department. See <a href="http://support.flir.com/service">http://support.flir.com/service</a> for contact details.         </div>
Ethernet, protocols	TCP, UDP, SNMP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Digital input/output	
Digital input, purpose	Image tag (start/stop/general), Input ext. device (programmatically read)
Digital input	2 opto-isolated, 0–1.5 V = low, 3–25 V = high
Digital output, purpose	Output to ext. device (programmatically set)
Digital output	2 opto-isolated, ON = supply (max. 100 mA), OFF = open
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	6–24 VDC, max. 200 mA
Digital I/O, connector type	6-pole jackable screw terminal

Composite video	
Video out	Composite video output, PAL and NTSC compatible
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC)
Video, connector type	Standard BNC connector

**P/N: 48201-1001**

© 2015, FLIR Systems, Inc.  
#48201-1001; r. 24651; en-US

<b>Power system</b>	
External power operation	12/24 VDC, 24 W absolute max.
External power, connector type	2-pole jackable screw terminal
Voltage	Allowed range 10–30 VDC

<b>Environmental data</b>	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> <li>• EN 61000-6-2:2001 (Immunity)</li> <li>• EN 61000-6-3:2001 (Emission)</li> <li>• FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 40 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

<b>Physical data</b>	
Weight	0.7 kg (1.54 lb.)
Camera size (L × W × H)	170 × 70 × 70 mm (6.7 × 2.8 × 2.8 in.)
Tripod mounting	UNC ¼"-20 (on three sides)
Base mounting	2 × M4 thread mounting holes (on three sides)
Housing material	Aluminum

<b>Shipping information</b>	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Ethernet cable</li> <li>• FLIR Tools download card</li> <li>• Mains cable</li> <li>• Power cable, pig-tailed</li> <li>• Power supply</li> <li>• Printed documentation</li> <li>• User documentation CD-ROM</li> <li>• Utility CD-ROM</li> </ul>
Packaging, weight	
Packaging, size	495 × 370 × 192 mm (19.5 × 14.6 × 7.6 in.)
EAN-13	7332558003336
UPC-12	845188003081
Country of origin	Sweden

**Supplies & accessories:**

- 1196961; IR lens, f = 30 mm, 15° incl. case
- 1196960; IR lens, f = 10 mm, 45° incl. case
- T197215; Close-up 4× (100 µm) incl. case
- T197214; Close-up 2× (50 µm) incl. case
- T197407; IR lens, 76 mm (6°) with case and mounting support for A3xx, A3xxsc
- T197411; IR lens, 4 mm (90°) with case and mounting support for A3xx, A3xxsc
- T197415; Close-up 1× (25 µm) incl. case and mounting support for A3xx, A3xxsc
- T197000; High temp. option +1200°C/+2192°F for FLIR T/B2xx to T/B4xx and A3xx, A3xxf, A3xxpt, A3xxsc series
- 1910400; Power cord EU
- 1910401; Power cord US
- 1910402; Power cord UK
- T910922; Power supply, incl. multi plugs, for A3xx, A3xxsc, A6xx and A6xxsc
- T911182; Power supply for A3xx f, IP66
- 908929; Video cable, 3.0 m/9.8 ft.
- T951004ACC; Ethernet cable CAT-6, 2m/6.6 ft.



---

**P/N: 48201-1001**

© 2015, FLIR Systems, Inc.  
#48201-1001; r. 24651; en-US

- 1910586ACC; Power cable, pigtailed
- T197871ACC; Hard transport case for A3xx/A6xx series
- T197870ACC; Cardboard box for A3xx/A6xx series
- 61301-0002; Fixed Housing for A3xx 25°/45°/90°
- 61301-0001; Fixed Housing for A3xx 7°/15°
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

## P/N: 42701-1001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 42701-1001  
Commit: 24651  
Language: en-US  
Modified: 2015-04-10 08:45  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The FLIR A300 (9 Hz) provides an affordable and accurate temperature measurement solution for anyone who needs to solve problems that do not call for the highest speed or reaction and who uses a PC. Due to its composite video output, it is also an excellent choice for thermal image automation applications, where you can utilize its unique properties such as looking through steam.

#### Key features:

- MPEG-4 streaming.
- PoE (Power over Ethernet).
- Built-in web server.
- General purpose I/O.
- 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.).
- Synchronization through SNTP.
- Composite video output.
- Multi-camera utility software: FLIR IP Config and FLIR IR Monitor included.
- Open and well-described TCP/IP protocol for control and set-up.
- 16-bit 320 × 240 pixel images at 3 Hz, radiometric.
- Lenses: 25° included, 15° and 45° optional.

#### Typical applications:

- Fire prevention, critical vessel monitoring, and power utility asset management.
- Volume-oriented industrial control (multi-camera installation is possible).

### Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	25° × 18.8°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
Spatial resolution (IFOV)	1.36 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	9 Hz
Focus	Automatic or manual (built in motor)
Zoom	1–8× continuous, digital, interpolating zooming on images

### Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm
Detector pitch	25 μm
Detector time constant	Typical 12 ms


P/N: 42701-1001

© 2015, FLIR Systems, Inc.  
#42701-1001; r. 24651; en-US

Measurement	
Object temperature range	<ul style="list-style-type: none"> <li>• -20 to +120°C (-4 to +248°F)</li> <li>• 0 to +350°C (+32 to +662°F)</li> </ul>
Accuracy	±2°C (±3.6°F) or ±2% of reading

Set-up	
Color palettes	Color palettes (BW, BW inv, Iron, Rain)
Set-up commands	Date/time, Temperature (°C/°F)

Storage of images	
Storage media	Built-in memory for image storage
File formats	Standard JPEG, 16-bit measurement data included

Ethernet	
Ethernet	Control and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary
Ethernet, video streaming	MPEG-4, ISO/IEC 14496-1 MPEG-4 ASP@L5
Ethernet, image streaming	16-bit 320 × 240 pixels @ 3 Hz <ul style="list-style-type: none"> <li>• Radiometric</li> </ul>
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0. <div>  <b>NOTE</b>  In cameras manufactured before 2013, due to an error in the implementation of power over Ethernet, in some rare cases the camera will not be powered. In such cases, power the camera using the external power cable, or modify the camera according to Service bulletin SB14-006. For modification, please contact your local service department. See <a href="http://support.flir.com/service">http://support.flir.com/service</a> for contact details. </div>
Ethernet, protocols	TCP, UDP, SNMP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Digital input/output	
Digital input, purpose	Image tag (start/stop/general), Input ext. device (programmatically read)
Digital input	2 opto-isolated, 0–1.5 V = low, 3–25 V = high
Digital output, purpose	Output to ext. device (programmatically set)
Digital output	2 opto-isolated, ON = supply (max. 100 mA), OFF = open
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	6–24 VDC, max. 200 mA
Digital I/O, connector type	6-pole jackable screw terminal

Composite video	
Video out	Composite video output, PAL and NTSC compatible
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC)
Video, connector type	Standard BNC connector

**P/N: 42701-1001**

© 2015, FLIR Systems, Inc.  
#42701-1001; r. 24651; en-US

<b>Power system</b>	
External power operation	12/24 VDC, 24 W absolute max.
External power, connector type	2-pole jackable screw terminal
Voltage	Allowed range 10–30 VDC

<b>Environmental data</b>	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> <li>• EN 61000-6-2:2001 (Immunity)</li> <li>• EN 61000-6-3:2001 (Emission)</li> <li>• FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 40 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

<b>Physical data</b>	
Weight	0.7 kg (1.54 lb.)
Camera size (L × W × H)	170 × 70 × 70 mm (6.7 × 2.8 × 2.8 in.)
Tripod mounting	UNC ¼"-20 (on three sides)
Base mounting	2 × M4 thread mounting holes (on three sides)
Housing material	Aluminum

<b>Shipping information</b>	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Ethernet cable</li> <li>• FLIR Tools download card</li> <li>• Mains cable</li> <li>• Power cable, pig-tailed</li> <li>• Power supply</li> <li>• Printed documentation</li> <li>• User documentation CD-ROM</li> <li>• Utility CD-ROM</li> </ul>
Packaging, weight	
Packaging, size	495 × 370 × 192 mm (19.5 × 14.6 × 7.6 in.)
EAN-13	7332558003343
UPC-12	845188003098
Country of origin	Sweden

**Supplies & accessories:**

- 1196961; IR lens, f = 30 mm, 15° incl. case
- 1196960; IR lens, f = 10 mm, 45° incl. case
- T197215; Close-up 4× (100 µm) incl. case
- T197214; Close-up 2× (50 µm) incl. case
- T197407; IR lens, 76 mm (6°) with case and mounting support for A3xx, A3xxsc
- T197411; IR lens, 4 mm (90°) with case and mounting support for A3xx, A3xxsc
- T197415; Close-up 1× (25 µm) incl. case and mounting support for A3xx, A3xxsc
- T197000; High temp. option +1200°C/+2192°F for FLIR T/B2xx to T/B4xx and A3xx, A3xxf, A3xxpt, A3xxsc series
- 1910400; Power cord EU
- 1910401; Power cord US
- 1910402; Power cord UK
- T910922; Power supply, incl. multi plugs, for A3xx, A3xxsc, A6xx and A6xxsc
- T911182; Power supply for A3xx f, IP66
- 908929; Video cable, 3.0 m/9.8 ft.
- T951004ACC; Ethernet cable CAT-6, 2m/6.6 ft.





---

**P/N: 42701-1001**

© 2015, FLIR Systems, Inc.  
#42701-1001; r. 24651; en-US

- 1910586ACC; Power cable, pigtailed
- T197871ACC; Hard transport case for A3xx/A6xx series
- T197870ACC; Cardboard box for A3xx/A6xx series
- 61301-0002; Fixed Housing for A3xx 25°/45°/90°
- 61301-0001; Fixed Housing for A3xx 7°/15°
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

**P/N: 42901-1001**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 42901-1001  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
The FLIR A305sc is an excellent choice for those working in R&D but who do not need the highest frame rates or a resolution higher than 320 × 240 pixels. When using the camera in R&D, it is highly recommended to use the FLIR ResearchIR software from FLIR Systems.	
Key features:	
<ul style="list-style-type: none"> <li>Affordable.</li> <li>16-bit 320 × 240 pixel images at 9 Hz.</li> <li>Start-and-stop recording in FLIR ResearchIR using digital input.</li> <li>Lenses: 25° included, 15° and 45° optional.</li> </ul>	
Typical applications:	
<ul style="list-style-type: none"> <li>Entry- or mid-level industrial R&amp;D that doesn't need the highest-speed frame rates.</li> </ul>	
Imaging and optical data	
IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	25° × 18.8°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
Spatial resolution (IFOV)	1.36 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	9 Hz
Focus	Automatic or manual (built in motor)
Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm
Detector pitch	25 μm
Detector time constant	Typical 12 ms
Measurement	
Object temperature range	<ul style="list-style-type: none"> <li>–20 to +120°C (–4 to +248°F)</li> <li>0 to +350°C (+32 to +662°F)</li> </ul>
Accuracy	±2°C (±3.6°F) or ±2% of reading
Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature

**P/N: 42901-1001**

© 2015, FLIR Systems, Inc.  
#42901-1001; r. 24597; en-US

Measurement analysis	
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters
Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary and GenICam protocol
Ethernet, image streaming	16-bit 320 × 240 pixels @ 9 Hz <ul style="list-style-type: none"> <li>• Signal linear</li> <li>• Temperature linear</li> <li>• Radiometric</li> </ul> GigE Vision and GenICam compatible
Ethernet, protocols	TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP
Digital input/output	
Digital input, purpose	Image tag (start, stop, general), Image flow control, (stream on/off), Input ext. device (programmatically read)
Digital input	2 opto-isolated, 0–1.5 V = low, 3–25 V = high
Digital output, purpose	Output to ext. device (programmatically set)
Digital output	2 opto-isolated, ON = supply (max. 100 mA), OFF = open
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	6–24 VDC, max. 200 mA
Digital I/O, connector type	6-pole jackable screw terminal
Power system	
External power operation	12/24 VDC, 24 W absolute max.
External power, connector type	2-pole jackable screw terminal
Voltage	Allowed range 10–30 VDC
Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> <li>• EN 61000-6-2:2001 (Immunity)</li> <li>• EN 61000-6-3:2001 (Emission)</li> <li>• FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 40 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Physical data	
Weight	0.7 kg (1.54 lb.)
Camera size (L × W × H)	170 × 70 × 70 mm (6.7 × 2.8 × 2.8 in.)
Tripod mounting	UNC ¼"-20 (on three sides)
Base mounting	2 × M4 thread mounting holes (on three sides)
Housing material	Aluminum

**P/N: 42901-1001**

© 2015, FLIR Systems, Inc.  
#42901-1001; r. 24597; en-US

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Ethernet cable</li> <li>• FLIR ResearchIR Max 4 (licence only)</li> <li>• FLIR Tools download card</li> <li>• Hard transport case</li> <li>• Mains cable</li> <li>• Power cable, pig-tailed</li> <li>• Power supply</li> <li>• Printed documentation</li> <li>• User documentation CD-ROM</li> </ul>
Packaging, weight	4.95 kg (10.9 lb.)
Packaging, size	495 × 370 × 192 mm (19.5 × 14.6 × 7.6 in.)
EAN-13	7332558004227
UPC-12	845188004255
Country of origin	Sweden

**Supplies & accessories:**

- 1196961; IR lens, f = 30 mm, 15° incl. case
- 1196960; IR lens, f = 10 mm, 45° incl. case
- T197215; Close-up 4× (100 µm) incl. case
- T197214; Close-up 2× (50 µm) incl. case
- T197407; IR lens, 76 mm (6°) with case and mounting support for A3xx, A3xxsc
- T197411; IR lens, 4 mm (90°) with case and mounting support for A3xx, A3xxsc
- T197415; Close-up 1× (25 µm) incl. case and mounting support for A3xx, A3xxsc
- T197000; High temp. option +1200°C/+2192°F for FLIR T/B2xx to T/B4xx and A3xx, A3xxf, A3xxpt, A3xxsc series
- 1910400; Power cord EU
- 1910401; Power cord US
- 1910402; Power cord UK
- T910922; Power supply, incl. multi plugs, for A3xx, A3xxsc, A6xx and A6xxsc
- T911182; Power supply for A3xx f, IP66
- T951004ACC; Ethernet cable CAT-6, 2m/6.6 ft.
- 1910586ACC; Power cable, pigtailed
- T197871ACC; Hard transport case for A3xx/A6xx series
- T197870ACC; Cardboard box for A3xx/A6xx series
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

**P/N: 48201-1101**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 48201-1101  
Commit: 24651  
Language: en-US  
Modified: 2015-04-10 08:45  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR A310 offers an affordable and accurate temperature measurement solution for anyone who needs to solve problems that need built in "smartness" such as analysis, alarm functionality and autonomous communication using standard protocols. The FLIR A310 also has all the necessary features and functions to build distributed single- or multi-camera solutions utilizing standard Ethernet hardware and software protocols.

The FLIR A310 also has built in support to connect to industrial control equipment such as PLCs, and allows for sharing of analysis and alarm results and simple control using the Ethernet/IP and Modbus TCP field bus protocols.

### Key features:

- Support for Ethernet/IP field bus protocol (analyze, alarm, and simple camera control).
- Support for Modbus TCP field bus protocol (analyze, alarm, and simple camera control).
- Built-in extensive analysis functionality.
- Extensive alarm functionality, as a function of analysis and more.
- On schedule: file sending (FTP) or e-mail (SMTP) of analysis results or images.
- On alarms: file sending (FTP) or e-mail (SMTP) of analysis results or images.
- MPEG-4 streaming.
- PoE (Power over Ethernet).
- Built-in web server.
- General purpose I/O.
- 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.).
- Synchronization through SNTP.
- Composite video output.
- Multi-camera utility software: FLIR IP Config and FLIR IR Monitor included.
- Open and well-described TCP/IP protocol for control and set-up.
- 16-bit 320 × 240 pixel images at 7–8 Hz, radiometric.
- Lenses: 25° included, 15° and 45° optional.

### Typical applications:

- Safety with temperature alarms (multi-camera applications), fire prevention, critical vessel monitoring, and power utility asset management.
- Volume-oriented industrial control (multi-camera installation is possible).

## Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	25° × 18.8°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
Spatial resolution (IFOV)	1.36 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	30 Hz
Focus	Automatic or manual (built in motor)
Zoom	1–8× continuous, digital, interpolating zooming on images


**P/N: 48201-1101**

© 2015, FLIR Systems, Inc.  
#48201-1101; r. 24651; en-US

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 $\mu\text{m}$
Detector pitch	25 $\mu\text{m}$
Detector time constant	Typical 12 ms
Measurement	
Object temperature range	<ul style="list-style-type: none"> <li>–20 to +120°C (–4 to +248°F)</li> <li>0 to +350°C (+32 to +662°F)</li> </ul>
Accuracy	$\pm 2^\circ\text{C}$ ( $\pm 3.6^\circ\text{F}$ ) or $\pm 2\%$ of reading
Measurement analysis	
Spotmeter	10
Area	10 boxes with max./min./average/position
Isotherm	1 with above/below/interval
Measurement option	Measurement Mask Filter Schedule response: File sending (ftp), email (SMTP)
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global and individual object parameters
Alarm	
Alarm functions	6 automatic alarms on any selected measurement function, Digital In, Camera temperature, timer
Alarm output	Digital Out, log, store image, file sending (ftp), email (SMTP), notification
Set-up	
Color palettes	Color palettes (BW, BW inv, Iron, Rain)
Set-up commands	Date/time, Temperature ( $^\circ\text{C}/^\circ\text{F}$ )
Storage of images	
Storage media	Built-in memory for image storage
File formats	Standard JPEG, 16-bit measurement data included
Ethernet	
Ethernet	Control, result and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary
Ethernet, video streaming	MPEG-4, ISO/IEC 14496-1 MPEG-4 ASP@L5
Ethernet, image streaming	16-bit 320 $\times$ 240 pixels @ 7-8 Hz <ul style="list-style-type: none"> <li>Radiometric</li> </ul>

P/N: 48201-1101

© 2015, FLIR Systems, Inc.  
#48201-1101; r. 24651; en-US

Ethernet	
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0. <div>  <b>NOTE</b>  In cameras manufactured before 2013, due to an error in the implementation of power over Ethernet, in some rare cases the camera will not be powered. In such cases, power the camera using the external power cable, or modify the camera according to Service bulletin SB14-006. For modification, please contact your local service department. See <a href="http://support.flir.com/service">http://support.flir.com/service</a> for contact details. </div>
Ethernet, protocols	Ethernet/IP, Modbus TCP, TCP, UDP, SNMP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP
Digital input/output	
Digital input, purpose	Image tag (start/stop/general), Input ext. device (programmatically read)
Digital input	2 opto-isolated, 0–1.5 V = low, 3–25 V = high
Digital output, purpose	As function of ALARM, Output to ext. device (programmatically set)
Digital output	2 opto-isolated, ON = supply (max. 100 mA), OFF = open
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	6–24 VDC, max. 200 mA
Digital I/O, connector type	6-pole jackable screw terminal
Composite video	
Video out	Composite video output, PAL and NTSC compatible
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC)
Video, connector type	Standard BNC connector
Power system	
External power operation	12/24 VDC, 24 W absolute max.
External power, connector type	2-pole jackable screw terminal
Voltage	Allowed range 10–30 VDC
Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> <li>EN 61000-6-2:2001 (Immunity)</li> <li>EN 61000-6-3:2001 (Emission)</li> <li>FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 40 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Physical data	
Weight	0.7 kg (1.54 lb.)
Camera size (L × W × H)	170 × 70 × 70 mm (6.7 × 2.8 × 2.8 in.)
Tripod mounting	UNC ¼"-20 (on three sides)

**P/N: 48201-1101**

© 2015, FLIR Systems, Inc.  
#48201-1101; r. 24651; en-US

Physical data	
Base mounting	2 × M4 thread mounting holes (on three sides)
Housing material	Aluminum
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Ethernet cable</li> <li>• FLIR Tools download card</li> <li>• Mains cable</li> <li>• Power cable, pig-tailed</li> <li>• Power supply</li> <li>• Printed documentation</li> <li>• User documentation CD-ROM</li> <li>• Utility CD-ROM</li> </ul>
Packaging, weight	2.85 kg (6.3 lb.)
Packaging, size	495 × 370 × 192 mm (19.5 × 14.6 × 7.6 in.)
EAN-13	7332558003350
UPC-12	845188003104
Country of origin	Sweden

#### Supplies & accessories:

- 1196961; IR lens, f = 30 mm, 15° incl. case
- 1196960; IR lens, f = 10 mm, 45° incl. case
- T197215; Close-up 4× (100 µm) incl. case
- T197214; Close-up 2× (50 µm) incl. case
- T197407; IR lens, 76 mm (6°) with case and mounting support for A3xx, A3xxsc
- T197411; IR lens, 4 mm (90°) with case and mounting support for A3xx, A3xxsc
- T197415; Close-up 1× (25 µm) incl. case and mounting support for A3xx, A3xxsc
- T197000; High temp. option +1200°C/+2192°F for FLIR T/B2xx to T/B4xx and A3xx, A3xxf, A3xxpt, A3xxsc series
- 1910400; Power cord EU
- 1910401; Power cord US
- 1910402; Power cord UK
- T910922; Power supply, incl. multi plugs, for A3xx, A3xxsc, A6xx and A6xxsc
- T911182; Power supply for A3xx f, IP66
- 908929; Video cable, 3.0 m/9.8 ft.
- T951004ACC; Ethernet cable CAT-6, 2m/6.6 ft.
- 1910586ACC; Power cable, pigtailed
- T197871ACC; Hard transport case for A3xx/A6xx series
- T197870ACC; Cardboard box for A3xx/A6xx series
- 61301-0002; Fixed Housing for A3xx 25°/45°/90°
- 61301-0001; Fixed Housing for A3xx 7°/15°
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3



**P/N: 42701-1101**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 42701-1101  
Commit: 24651  
Language: en-US  
Modified: 2015-04-10 08:45  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR A310 (9 Hz) provides an affordable and accurate temperature measurement solution for anyone who needs to solve problems that need built in "smartness" such as analysis, alarm functionality, and autonomous communication using standard protocols. The FLIR A310 also has all the necessary features and functions to build distributed single- or multi-camera solutions utilizing standard Ethernet hardware and software protocols.

The FLIR A310 also has built in support to connect to industrial control equipment such as PLCs, and allows for sharing of analysis and alarm results and simple control using the Ethernet/IP and Modbus TCP field bus protocols.

## Key features:

- Support for the Ethernet/IP field bus protocol (analyze, alarm, and simple camera control).
- Support for the Modbus TCP field bus protocol (analyze, alarm, and simple camera control).
- Built-in extensive analysis functionality.
- Extensive alarm functionality, as a function of analysis and more.
- On schedule: file sending (FTP) or e-mail (SMTP) of analysis results or images.
- On alarms: file sending (FTP) or e-mail (SMTP) of analysis results or images.
- MPEG-4 streaming.
- PoE (Power over Ethernet).
- Built-in web server.
- General purpose I/O.
- 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.).
- Synchronization through SNTP.
- Composite video output.
- Multi-camera utility software: FLIR IP Config and FLIR IR Monitor included.
- Open and well-described TCP/IP protocol for control and set-up.
- 16-bit 320 × 240 pixel images at 4.5 Hz, radiometric.
- Lenses: 25° included, 15° and 45° optional.

## Typical applications:

- Safety with temperature alarms (multi-camera applications), fire prevention, critical vessel monitoring, and power utility asset management.
- Volume-oriented industrial control (multi-camera installation is possible).

## Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	25° × 18.8°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
Spatial resolution (IFOV)	1.36 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	9 Hz
Focus	Automatic or manual (built in motor)
Zoom	1–8× continuous, digital, interpolating zooming on images


**P/N: 42701-1101**

© 2015, FLIR Systems, Inc.  
#42701-1101; r. 24651; en-US

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 $\mu\text{m}$
Detector pitch	25 $\mu\text{m}$
Detector time constant	Typical 12 ms
Measurement	
Object temperature range	<ul style="list-style-type: none"> <li>–20 to +120°C (–4 to +248°F)</li> <li>0 to +350°C (+32 to +662°F)</li> </ul>
Accuracy	$\pm 2^\circ\text{C}$ ( $\pm 3.6^\circ\text{F}$ ) or $\pm 2\%$ of reading
Measurement analysis	
Spotmeter	10
Area	10 boxes with max./min./average/position
Isotherm	1 with above/below/interval
Measurement option	Measurement Mask Filter Schedule response: File sending (ftp), email (SMTP)
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global and individual object parameters
Alarm	
Alarm functions	6 automatic alarms on any selected measurement function, Digital In, Camera temperature, timer
Alarm output	Digital Out, log, store image, file sending (ftp), email (SMTP), notification
Set-up	
Color palettes	Color palettes (BW, BW inv, Iron, Rain)
Set-up commands	Date/time, Temperature ( $^\circ\text{C}/^\circ\text{F}$ )
Storage of images	
Storage media	Built-in memory for image storage
File formats	Standard JPEG, 16-bit measurement data included
Ethernet	
Ethernet	Control, result and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary
Ethernet, video streaming	MPEG-4, ISO/IEC 14496-1 MPEG-4 ASP@L5
Ethernet, image streaming	16-bit 320 $\times$ 240 pixels @ 4.5 Hz <ul style="list-style-type: none"> <li>Radiometric</li> </ul>

P/N: 42701-1101

© 2015, FLIR Systems, Inc.  
#42701-1101; r. 24651; en-US

Ethernet	
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0. <div>  <b>NOTE</b>  In cameras manufactured before 2013, due to an error in the implementation of power over Ethernet, in some rare cases the camera will not be powered. In such cases, power the camera using the external power cable, or modify the camera according to Service bulletin SB14-006. For modification, please contact your local service department. See <a href="http://support.flir.com/service">http://support.flir.com/service</a> for contact details. </div>
Ethernet, protocols	Ethernet/IP, Modbus TCP, TCP, UDP, SNMP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP
Digital input/output	
Digital input, purpose	Image tag (start/stop/general), Input ext. device (programmatically read)
Digital input	2 opto-isolated, 0–1.5 V = low, 3–25 V = high
Digital output, purpose	As function of ALARM, Output to ext. device (programmatically set)
Digital output	2 opto-isolated, ON = supply (max. 100 mA), OFF = open
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	6–24 VDC, max. 200 mA
Digital I/O, connector type	6-pole jackable screw terminal
Composite video	
Video out	Composite video output, PAL and NTSC compatible
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC)
Video, connector type	Standard BNC connector
Power system	
External power operation	12/24 VDC, 24 W absolute max.
External power, connector type	2-pole jackable screw terminal
Voltage	Allowed range 10–30 VDC
Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> <li>EN 61000-6-2:2001 (Immunity)</li> <li>EN 61000-6-3:2001 (Emission)</li> <li>FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 40 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Physical data	
Weight	0.7 kg (1.54 lb.)
Camera size (L × W × H)	170 × 70 × 70 mm (6.7 × 2.8 × 2.8 in.)
Tripod mounting	UNC ¼"-20 (on three sides)

**P/N: 42701-1101**

 © 2015, FLIR Systems, Inc.  
 #42701-1101; r. 24651; en-US

Physical data	
Base mounting	2 × M4 thread mounting holes (on three sides)
Housing material	Aluminum
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Ethernet cable</li> <li>• FLIR Tools download card</li> <li>• Mains cable</li> <li>• Power cable, pig-tailed</li> <li>• Power supply</li> <li>• Printed documentation</li> <li>• User documentation CD-ROM</li> <li>• Utility CD-ROM</li> </ul>
Packaging, weight	
Packaging, size	495 × 370 × 192 mm (19.5 × 14.6 × 7.6 in.)
EAN-13	7332558003367
UPC-12	845188003111
Country of origin	Sweden

**Supplies & accessories:**

- 1196961; IR lens, f = 30 mm, 15° incl. case
- 1196960; IR lens, f = 10 mm, 45° incl. case
- T197215; Close-up 4× (100 μm) incl. case
- T197214; Close-up 2× (50 μm) incl. case
- T197407; IR lens, 76 mm (6°) with case and mounting support for A3xx, A3xxsc
- T197411; IR lens, 4 mm (90°) with case and mounting support for A3xx, A3xxsc
- T197415; Close-up 1× (25 μm) incl. case and mounting support for A3xx, A3xxsc
- T197000; High temp. option +1200°C/+2192°F for FLIR T/B2xx to T/B4xx and A3xx, A3xxf, A3xxpt, A3xxsc series
- 1910400; Power cord EU
- 1910401; Power cord US
- 1910402; Power cord UK
- T910922; Power supply, incl. multi plugs, for A3xx, A3xxsc, A6xx and A6xxsc
- T911182; Power supply for A3xx f, IP66
- 908929; Video cable, 3.0 m/9.8 ft.
- T951004ACC; Ethernet cable CAT-6, 2m/6.6 ft.
- 1910586ACC; Power cable, pigtailed
- T197871ACC; Hard transport case for A3xx/A6xx series
- T197870ACC; Cardboard box for A3xx/A6xx series
- 61301-0002; Fixed Housing for A3xx 25°/45°/90°
- 61301-0001; Fixed Housing for A3xx 7°/15°
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

## P/N: 71001-1103

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 71001-1103  
Commit: 23384  
Language: en-US  
Modified: 2015-02-24 14:30  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### Introduction

The FLIR A310 ex is an ATEX-proof solution, with a thermal imaging camera mounted in an enclosure—making it possible to monitor critical and other valuable assets in explosive atmospheres. Process monitoring, quality control, and fire detection in potentially explosive locations are typical applications for the FLIR A310 ex.

- Thermographic monitoring and early fire detection in an explosion-hazard area.
- Enclosures for infrared cameras in Ex zones 1, 2, 21, and 22.
- ATEX certified.
- Protection class IP67.
- Plug-and-play installation with the enclosure delivered ready for use.
- Available with additional options.

The certification covers the entire system, which includes the enclosure as well as all components inside of it, such as the infrared camera, heater, and integrated controller. This means that no additional certification is required for operation.

The integrated controller is equipped with two fiber optic and two Ethernet ports. This enables a flexible network integration in star ring topologies.

In addition, the integrated controller features several digital I/O channels and sensors for temperature, humidity, and pressure. Among other functions, the I/O channels enable the user to switch on/off the camera and the heater via remote control. Access is through an integrated web interface or Modbus TCP/IP.

### Explosion-proof housing

General data	
Ambient temperature range for operation	–20°C to +40°C
Protection class	IP67
Weight	6.7 kg (without camera and lens)
Empty volume	5.06 l
External dimensions (without sun shield)	D = 170 mm, L = 408 mm
Housing material	Nickel-plated aluminium
Surface	Powder coated
Protection window	Germanium, double-sided AR Coated, externally with additional hard-carbon layer
Maximum power of the additional heater	16 W
Operating voltage	24 V DC
Maximum electric connection power	60 W
Power cable	Helukabel 37264
Length of power cable	4 m (13 ft.)
Power cable configuration	Pigtail

**P/N: 71001-1103**

© 2015, FLIR Systems, Inc.  
#71001-1103; r. 23384; en-US

General data	
Integrated controller	4-port switch with 2 × fiber-optic LC 100Base-FX or 2 × RJ45(10/100) up-links, ring-topology support for reduced cabling effort, 2 × internal temperature sensors, air humidity and pressure sensor, digital output module controllable via Modbus TCP/IP or web interface to enable turning the heater on/off
Ethernet medium	Multi-mode breakout fiber AT-V(ZN)Y(ZN)Y 4G50/125 OM2
Length of Ethernet cable	4 m (13 ft.)
Ethernet configuration	Pigtail with FC connector

Explosion protection-specific data	
For use in EX zone	1, 2, 21, and 22
Ignition protection category	Flame-proof enclosure "d"
Maximum surface temperature (according to temperature class T6)	Maximum 85°C
ATEX certification (version -AXC)	EX-Protection Gas: II 2G Ex d IIC T6 Gb, EX-Protection Dust: II 2D Ex tb IIIC T85° Db
Verification certificate	ZELM 12 ATEX 0485 X

**Camera system**

Imaging and optical data	
IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	25° × 18.8°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
Spatial resolution (IFOV)	1.36 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	30 Hz
Focus	Automatic or manual (built in motor)
Zoom	1–8× continuous, digital, interpolating zooming on images

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 µm
Detector pitch	25 µm
Detector time constant	Typical 12 ms

Measurement	
Object temperature range	<ul style="list-style-type: none"> <li>–20 to +120°C (–4 to +248°F)</li> <li>0 to +350°C (+32 to +662°F)</li> </ul>
Accuracy	±2°C (±3.6°F) or ±2% of reading

Measurement analysis	
Spotmeter	10
Area	10 boxes with max./min./average/position
Isotherm	1 with above/below/interval
Measurement option	Measurement Mask Filter Schedule response: File sending (ftp), email (SMTP)

**P/N: 71001-1103**

 © 2015, FLIR Systems, Inc.  
 #71001-1103; r. 23384; en-US

<b>Measurement analysis</b>	
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global and individual object parameters
<b>Alarm</b>	
Alarm functions	6 automatic alarms on any selected measurement function, Digital In, Camera temperature, timer
Alarm output	Digital Out, log, store image, file sending (ftp), email (SMTP), notification
<b>Set-up</b>	
Color palettes	Color palettes (BW, BW inv, Iron, Rain)
Set-up commands	Date/time, Temperature (°C/°F)
<b>Storage of images</b>	
Storage media	Built-in memory for image storage
File formats	Standard JPEG, 16-bit measurement data included
<b>Ethernet</b>	
Ethernet	Control, result and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, configuration	Pigtail with FC-connector (fiber)
Ethernet, communication	TCP/IP socket-based FLIR proprietary
Ethernet, video streaming	MPEG-4, ISO/IEC 14496-1 MPEG-4 ASP@L5
Ethernet, image streaming	16-bit 320 × 240 pixels @ 7-8 Hz <ul style="list-style-type: none"> <li>• Radiometric</li> </ul>
Ethernet, protocols	Ethernet/IP, Modbus TCP, TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP
<b>Shipping information</b>	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens, in explosion-proof housing</li> <li>• Printed documentation</li> <li>• User documentation CD-ROM</li> <li>• Utility CD-ROM</li> </ul>
Packaging, weight	
Packaging, size	495 × 370 × 192 mm (19.5 × 14.6 × 7.6 in.)
EAN-13	7332558008355
UPC-12	845188008703
Country of origin	Sweden

## P/N: 71001-1104

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 71001-1104  
Commit: 23384  
Language: en-US  
Modified: 2015-02-24 14:30  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### Introduction

The FLIR A310 ex is an ATEX-proof solution, with a thermal imaging camera mounted in an enclosure—making it possible to monitor critical and other valuable assets in explosive atmospheres. Process monitoring, quality control, and fire detection in potentially explosive locations are typical applications for the FLIR A310 ex.

- Thermographic monitoring and early fire detection in an explosion-hazard area.
- Enclosures for infrared cameras in Ex zones 1, 2, 21, and 22.
- ATEX certified.
- Protection class IP67.
- Plug-and-play installation with the enclosure delivered ready for use.
- Available with additional options.

The certification covers the entire system, which includes the enclosure as well as all components inside of it, such as the infrared camera, heater, and integrated controller. This means that no additional certification is required for operation.

The integrated controller is equipped with two fiber optic and two Ethernet ports. This enables a flexible network integration in star ring topologies.

In addition, the integrated controller features several digital I/O channels and sensors for temperature, humidity, and pressure. Among other functions, the I/O channels enable the user to switch on/off the camera and the heater via remote control. Access is through an integrated web interface or Modbus TCP/IP.

### Explosion-proof housing

General data	
Ambient temperature range for operation	–20°C to +40°C
Protection class	IP67
Weight	6.7 kg (without camera and lens)
Empty volume	5.06 l
External dimensions (without sun shield)	D = 170 mm, L = 408 mm
Housing material	Nickel-plated aluminium
Surface	Powder coated
Protection window	Germanium, double-sided AR Coated, externally with additional hard-carbon layer
Maximum power of the additional heater	16 W
Operating voltage	24 V DC
Maximum electric connection power	60 W
Power cable	Helukabel 37264
Length of power cable	4 m (13 ft.)
Power cable configuration	Pigtail



P/N: 71001-1104

© 2015, FLIR Systems, Inc.  
#71001-1104; r. 23384; en-US

General data	
Integrated controller	4-port switch with 2 × fiber-optic LC 100Base-FX or 2 × RJ45(10/100) up-links, ring-topology support for reduced cabling effort, 2 × internal temperature sensors, air humidity and pressure sensor, digital output module controllable via Modbus TCP/IP or web interface to enable turning the heater on/off
Ethernet medium	Multi-mode breakout fiber AT-V(ZN)Y(ZN)Y 4G50/125 OM2
Length of Ethernet cable	4 m (13 ft.)
Ethernet configuration	Pigtail with FC connector

Explosion protection-specific data	
For use in EX zone	1, 2, 21, and 22
Ignition protection category	Flame-proof enclosure "d"
Maximum surface temperature (according to temperature class T6)	Maximum 85°C
ATEX certification (version -AXC)	EX-Protection Gas: II 2G Ex d IIC T6 Gb, EX-Protection Dust: II 2D Ex tb IIIC T85° Db
Verification certificate	ZELM 12 ATEX 0485 X

## Camera system

Imaging and optical data	
IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	45° × 33.8
Minimum focus distance	0.20 m (0.66 ft.)
Focal length	9.66 mm (0.38 in.)
Spatial resolution (IFOV)	2.59 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	30 Hz
Focus	Automatic or manual (built in motor)
Zoom	1–8× continuous, digital, interpolating zooming on images

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 µm
Detector pitch	25 µm
Detector time constant	Typical 12 ms

Measurement	
Object temperature range	<ul style="list-style-type: none"> <li>–20 to +120°C (–4 to +248°F)</li> <li>0 to +350°C (+32 to +662°F)</li> </ul>
Accuracy	±2°C (±3.6°F) or ±2% of reading

Measurement analysis	
Spotmeter	10
Area	10 boxes with max./min./average/position
Isotherm	1 with above/below/interval
Measurement option	Measurement Mask Filter Schedule response: File sending (ftp), email (SMTP)

P/N: 71001-1104

© 2015, FLIR Systems, Inc.  
#71001-1104; r. 23384; en-US

Measurement analysis	
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global and individual object parameters
Alarm	
Alarm functions	6 automatic alarms on any selected measurement function, Digital In, Camera temperature, timer
Alarm output	Digital Out, log, store image, file sending (ftp), email (SMTP), notification
Set-up	
Color palettes	Color palettes (BW, BW inv, Iron, Rain)
Set-up commands	Date/time, Temperature (°C/°F)
Storage of images	
Storage media	Built-in memory for image storage
File formats	Standard JPEG, 16-bit measurement data included
Ethernet	
Ethernet	Control, result and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, configuration	Pigtail with FC connector
Ethernet, communication	TCP/IP socket-based FLIR proprietary
Ethernet, video streaming	MPEG-4, ISO/IEC 14496-1 MPEG-4 ASP@L5
Ethernet, image streaming	16-bit 320 × 240 pixels @ 7-8 Hz <ul style="list-style-type: none"> <li>Radiometric</li> </ul>
Ethernet, protocols	Ethernet/IP, Modbus TCP, TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Infrared camera with lens, in explosion-proof housing</li> <li>Printed documentation</li> <li>User documentation CD-ROM</li> <li>Utility CD-ROM</li> </ul>
Packaging, weight	
Packaging, size	495 × 370 × 192 mm (19.5 × 14.6 × 7.6 in.)
EAN-13	7332558008362
UPC-12	845188008710
Country of origin	Sweden

**P/N: 48001-1101**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 48001-1101  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR A315 has features and functions that make it the natural choice for anyone who uses PC software to solve problems and for whom 320 × 240 pixel resolution is sufficient. Among its main features are GigE Vision and GenICam compliance, which makes it plug-and-play when used with software packages such as IMAQ Vision and Halcon.

### Key features:

- Affordable.
- GigE compliant.
- GenICam compliant.
- Trigg/synchronization/GPIO.
- 16-bit 320 × 240 pixel images at 60 Hz, signal, temperature linear, and radiometric.
- Compliant with any software that supports GenICam, including National Instruments IMAQ Vision and Stammers Common Vision Blox.
- Lenses: 25° included, 15° and 45° optional.

### Typical applications:

- High-end infrared machine vision that requires temperature measurement.
- Slag detection.
- Food processing.
- Electronics testing.
- Power resistor testing.
- Automotive.

## Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	25° × 18.8°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
Spatial resolution (IFOV)	1.36 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	60 Hz
Focus	Automatic or manual (built in motor)

## Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm
Detector pitch	25 μm
Detector time constant	Typical 12 ms

## Measurement

Object temperature range	<ul style="list-style-type: none"> <li>• -20 to +120°C (-4 to +248°F)</li> <li>• 0 to +350°C (+32 to +662°F)</li> </ul>
Accuracy	±2°C (±3.6°F) or ±2% of reading

P/N: 48001-1101

© 2015, FLIR Systems, Inc.  
#48001-1101; r. 24597; en-US

Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters

Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary and GenICam protocol
Ethernet, image streaming	16-bit 320 × 240 pixels @ 60 Hz <ul style="list-style-type: none"> <li>Signal linear</li> <li>Temperature linear</li> <li>Radiometric</li> </ul> GigE Vision and GenICam compatible
Ethernet, protocols	TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Digital input/output	
Digital input, purpose	Image tag (start, stop, general), Image flow control, (stream on/off), Input ext. device (programmatically read)
Digital input	2 opto-isolated, 0–1.5 V = low, 3–25 V = high
Digital output, purpose	Output to ext. device (programmatically set)
Digital output	2 opto-isolated, ON = supply (max. 100 mA), OFF = open
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	6–24 VDC, max. 200 mA
Digital I/O, connector type	6-pole jackable screw terminal

Power system	
External power operation	12/24 VDC, 24 W absolute max.
External power, connector type	2-pole jackable screw terminal
Voltage	Allowed range 10–30 VDC

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> <li>EN 61000-6-2:2001 (Immunity)</li> <li>EN 61000-6-3:2001 (Emission)</li> <li>FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 40 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

**P/N: 48001-1101**

© 2015, FLIR Systems, Inc.  
#48001-1101; r. 24597; en-US

Physical data	
Weight	0.7 kg (1.54 lb.)
Camera size (L × W × H)	170 × 70 × 70 mm (6.7 × 2.8 × 2.8 in.)
Tripod mounting	UNC ¼"-20 (on three sides)
Base mounting	2 × M4 thread mounting holes (on three sides)
Housing material	Aluminum
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Ethernet cable</li> <li>• FLIR Tools download card</li> <li>• Mains cable</li> <li>• Power cable, pig-tailed</li> <li>• Power supply</li> <li>• Printed documentation</li> <li>• User documentation CD-ROM</li> <li>• Utility CD-ROM</li> </ul>
Packaging, weight	
Packaging, size	495 × 370 × 192 mm (19.5 × 14.6 × 7.6 in.)
EAN-13	7332558003374
UPC-12	845188003128
Country of origin	Sweden

**Supplies & accessories:**

- 1196961; IR lens, f = 30 mm, 15° incl. case
- 1196960; IR lens, f = 10 mm, 45° incl. case
- T197215; Close-up 4× (100 µm) incl. case
- T197214; Close-up 2× (50 µm) incl. case
- T197407; IR lens, 76 mm (6°) with case and mounting support for A3xx, A3xxsc
- T197411; IR lens, 4 mm (90°) with case and mounting support for A3xx, A3xxsc
- T197415; Close-up 1× (25 µm) incl. case and mounting support for A3xx, A3xxsc
- T197000; High temp. option +1200°C/+2192°F for FLIR T/B2xx to T/B4xx and A3xx, A3xxf, A3xxpt, A3xxsc series
- 1910400; Power cord EU
- 1910401; Power cord US
- 1910402; Power cord UK
- T910922; Power supply, incl. multi plugs, for A3xx, A3xxsc, A6xx and A6xxsc
- T911182; Power supply for A3xx f, IP66
- T951004ACC; Ethernet cable CAT-6, 2m/6.6 ft.
- 1910586ACC; Power cable, pigtailed
- T197871ACC; Hard transport case for A3xx/A6xx series
- T197870ACC; Cardboard box for A3xx/A6xx series
- 61301-0002; Fixed Housing for A3xx 25°/45°/90°
- 61301-0001; Fixed Housing for A3xx 7°/15°
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

**P/N: 42901-1101**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 42901-1101  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR A315 (9 Hz) has features and functions that make it the natural choice for anyone who uses PC software to solve problems and for whom 320 × 240 pixel resolution is sufficient. Among its main features are GigE Vision and GenICam compliance, which makes it plug-and-play when used with software packages such as IMAQ Vision and Halcon.

### Key features:

- Affordable.
- GigE compliant.
- GenICam compliant.
- Trigg/synchronization/GPIO.
- 16-bit 320 × 240 pixel images at 9 Hz, signal, temperature linear, and radiometric.
- Compliant with any software that supports GenICam, including National Instruments IMAQ Vision and Stammers Common Vision Blox.
- Lenses: 25° included, 15° and 45° optional.

### Typical applications:

- High-end infrared machine vision requiring temperature measurement.
- Slag detection.
- Food processing.
- Electronics testing.
- Power resistor testing.
- Automotive.

## Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	25° × 18.8°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
Spatial resolution (IFOV)	1.36 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	9 Hz
Focus	Automatic or manual (built in motor)

## Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm
Detector pitch	25 μm
Detector time constant	Typical 12 ms

## Measurement

Object temperature range	<ul style="list-style-type: none"> <li>• -20 to +120°C (-4 to +248°F)</li> <li>• 0 to +350°C (+32 to +662°F)</li> </ul>
Accuracy	±2°C (±3.6°F) or ±2% of reading

**P/N: 42901-1101**

 © 2015, FLIR Systems, Inc.  
 #42901-1101; r. 24597; en-US

<b>Measurement analysis</b>	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters
<b>Ethernet</b>	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary and GenICam protocol
Ethernet, image streaming	16-bit 320 × 240 pixels @ 9 Hz <ul style="list-style-type: none"> <li>• Signal linear</li> <li>• Temperature linear</li> <li>• Radiometric</li> </ul> GigE Vision and GenICam compatible
Ethernet, protocols	TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP
<b>Digital input/output</b>	
Digital input, purpose	Image tag (start, stop, general), Image flow control, (stream on/off), Input ext. device (programmatically read)
Digital input	2 opto-isolated, 0–1.5 V = low, 3–25 V = high
Digital output, purpose	Output to ext. device (programmatically set)
Digital output	2 opto-isolated, ON = supply (max. 100 mA), OFF = open
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	6–24 VDC, max. 200 mA
Digital I/O, connector type	6-pole jackable screw terminal
<b>Power system</b>	
External power operation	12/24 VDC, 24 W absolute max.
External power, connector type	2-pole jackable screw terminal
Voltage	Allowed range 10–30 VDC
<b>Environmental data</b>	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> <li>• EN 61000-6-2:2001 (Immunity)</li> <li>• EN 61000-6-3:2001 (Emission)</li> <li>• FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 40 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

**P/N: 42901-1101**

© 2015, FLIR Systems, Inc.  
#42901-1101; r. 24597; en-US

Physical data	
Weight	0.7 kg (1.54 lb.)
Camera size (L × W × H)	170 × 70 × 70 mm (6.7 × 2.8 × 2.8 in.)
Tripod mounting	UNC ¼"-20 (on three sides)
Base mounting	2 × M4 thread mounting holes (on three sides)
Housing material	Aluminum
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Ethernet cable</li> <li>• FLIR Tools download card</li> <li>• Mains cable</li> <li>• Power cable, pig-tailed</li> <li>• Power supply</li> <li>• Printed documentation</li> <li>• User documentation CD-ROM</li> <li>• Utility CD-ROM</li> </ul>
Packaging, weight	
Packaging, size	495 × 370 × 192 mm (19.5 × 14.6 × 7.6 in.)
EAN-13	7332558003381
UPC-12	845188003135
Country of origin	Sweden

**Supplies & accessories:**

- 1196961; IR lens, f = 30 mm, 15° incl. case
- 1196960; IR lens, f = 10 mm, 45° incl. case
- T197215; Close-up 4× (100 µm) incl. case
- T197214; Close-up 2× (50 µm) incl. case
- T197407; IR lens, 76 mm (6°) with case and mounting support for A3xx, A3xxsc
- T197411; IR lens, 4 mm (90°) with case and mounting support for A3xx, A3xxsc
- T197415; Close-up 1× (25 µm) incl. case and mounting support for A3xx, A3xxsc
- T197000; High temp. option +1200°C/+2192°F for FLIR T/B2xx to T/B4xx and A3xx, A3xxf, A3xxpt, A3xxsc series
- 1910400; Power cord EU
- 1910401; Power cord US
- 1910402; Power cord UK
- T910922; Power supply, incl. multi plugs, for A3xx, A3xxsc, A6xx and A6xxsc
- T911182; Power supply for A3xx f, IP66
- T951004ACC; Ethernet cable CAT-6, 2m/6.6 ft.
- 1910586ACC; Power cable, pigtailed
- T197871ACC; Hard transport case for A3xx/A6xx series
- T197870ACC; Cardboard box for A3xx/A6xx series
- 61301-0002; Fixed Housing for A3xx 25°/45°/90°
- 61301-0001; Fixed Housing for A3xx 7°/15°
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3



**P/N: 48201-1201**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 48201-1201  
Commit: 24651  
Language: en-US  
Modified: 2015-04-10 08:45  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR A320 Tempscreen is a camera preconfigured to work well in applications where you want to find temperature deviations in a population of people, utilizing difference temperature alarms with a dynamically updated reference temperature.

In addition, the FLIR A320 Tempscreen offers an affordable and accurate temperature measurement solution for anyone who needs to solve problems that need built in "smartness" such as analysis, alarm functionality and autonomous communication using standard protocols. The FLIR A320 Tempscreen also has all the necessary features and functions to build distributed single- or multi-camera solutions utilizing standard Ethernet hardware and software protocols.

## Key features:

- Screening: difference temperature alarm with a dynamic updated reference temperature (visualized by the isotherm).
- Built-in extensive analysis functionality.
- Extensive alarm functionality, as a function of analysis and more.
- On schedule: file sending (FTP) or e-mail (SMTP) of analysis results or images.
- On alarms: file sending (FTP) or e-mail (SMTP) of analysis results or images.
- MPEG-4 streaming.
- PoE (Power over Ethernet).
- Built-in web server.
- General purpose I/O.
- 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.).
- Synchronization through SNTP.
- Composite video output.
- Multi-camera utility software: FLIR IP Config and FLIR IR Monitor included.
- Open and well-described TCP/IP protocol for control and set-up.
- 16-bit 320 × 240 pixel images semi-real time, signal and temperature linear.
- Lenses: 25° included, 15° and 45° optional.

## Typical applications:

- Safety with temperature alarms (multi-camera applications), fire prevention, critical vessel monitoring, and power utility asset management.
- Volume-oriented industrial control (multi-camera installation is possible).

## Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	25° × 18.8°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
Spatial resolution (IFOV)	1.36 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	30 Hz
Focus	Automatic or manual (built in motor)
Zoom	1–8× continuous, digital, interpolating zooming on images


**P/N: 48201-1201**

© 2015, FLIR Systems, Inc.  
#48201-1201; r. 24651; en-US

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 $\mu\text{m}$
Detector pitch	25 $\mu\text{m}$
Detector time constant	Typical 12 ms
Measurement	
Object temperature range	<ul style="list-style-type: none"> <li>–20 to +120°C (–4 to +248°F)</li> <li>0 to +350°C (+32 to +662°F)</li> </ul>
Accuracy	$\pm 2^\circ\text{C}$ ( $\pm 3.6^\circ\text{F}$ ) or $\pm 2\%$ of reading
Measurement analysis	
Spotmeter	4
Area	4 boxes with max./min./average/position
Isotherm	1 with above/below/interval
Measurement option	Measurement Mask Filter Schedule response: File sending (ftp), email (SMTP)
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global and individual object parameters
Alarm	
Alarm functions	6 automatic alarms on any selected measurement function, Digital In, Camera temperature, timer
Screening	Difference temperature alarm with dynamic updated reference temperature (visualized by the isotherm)
Alarm output	Digital Out, log, store image, file sending (ftp), email (SMTP), notification
Set-up	
Color palettes	Color palettes (BW, BW inv, Iron, Rain)
Set-up commands	Date/time, Temperature ( $^\circ\text{C}/^\circ\text{F}$ )
Storage of images	
Storage media	Built-in memory for image storage
File formats	Standard JPEG, 16-bit measurement data included
Ethernet	
Ethernet	Control, result and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary
Ethernet, video streaming	MPEG-4, ISO/IEC 14496-1 MPEG-4 ASP@L5

**P/N: 48201-1201**

© 2015, FLIR Systems, Inc.  
#48201-1201; r. 24651; en-US

Ethernet	
Ethernet, image streaming	16-bit 320 × 240 pixels <ul style="list-style-type: none"> <li>• Signal linear</li> <li>• Temperature linear</li> <li>• Radiometric</li> </ul>
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0. <div>  <b>NOTE</b>  In cameras manufactured before 2013, due to an error in the implementation of power over Ethernet, in some rare cases the camera will not be powered. In such cases, power the camera using the external power cable, or modify the camera according to Service bulletin SB14-006. For modification, please contact your local service department. See <a href="http://support.flir.com/service">http://support.flir.com/service</a> for contact details. </div>
Ethernet, protocols	TCP, UDP, SNMP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Digital input/output	
Digital input, purpose	Image tag (start/stop/general), Input ext. device (programmatically read)
Digital input	2 opto-isolated, 0–1.5 V = low, 3–25 V = high
Digital output, purpose	As function of ALARM, Output to ext. device (programmatically set)
Digital output	2 opto-isolated, ON = supply (max. 100 mA), OFF = open
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	6–24 VDC, max. 200 mA
Digital I/O, connector type	6-pole jackable screw terminal

Composite video	
Video out	Composite video output, PAL and NTSC compatible
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC)
Video, connector type	Standard BNC connector

Power system	
External power operation	12/24 VDC, 24 W absolute max.
External power, connector type	2-pole jackable screw terminal
Voltage	Allowed range 10–30 VDC

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> <li>• EN 61000-6-2:2001 (Immunity)</li> <li>• EN 61000-6-3:2001 (Emission)</li> <li>• FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 40 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

**P/N: 48201-1201**

© 2015, FLIR Systems, Inc.  
#48201-1201; r. 24651; en-US

Physical data	
Weight	0.7 kg (1.54 lb.)
Camera size (L × W × H)	170 × 70 × 70 mm (6.7 × 2.8 × 2.8 in.)
Tripod mounting	UNC ¼"-20 (on three sides)
Base mounting	2 × M4 thread mounting holes (on three sides)
Housing material	Aluminum
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Ethernet cable</li> <li>• FLIR Tools download card</li> <li>• Mains cable</li> <li>• Power cable, pig-tailed</li> <li>• Power supply</li> <li>• Printed documentation</li> <li>• User documentation CD-ROM</li> <li>• Utility CD-ROM</li> </ul>
Packaging, weight	
Packaging, size	495 × 370 × 192 mm (19.5 × 14.6 × 7.6 in.)
EAN-13	7332558003398
UPC-12	845188003142
Country of origin	Sweden

**Supplies & accessories:**

- 1196961; IR lens, f = 30 mm, 15° incl. case
- 1196960; IR lens, f = 10 mm, 45° incl. case
- T197215; Close-up 4× (100 µm) incl. case
- T197214; Close-up 2× (50 µm) incl. case
- T197407; IR lens, 76 mm (6°) with case and mounting support for A3xx, A3xxsc
- T197411; IR lens, 4 mm (90°) with case and mounting support for A3xx, A3xxsc
- T197415; Close-up 1× (25 µm) incl. case and mounting support for A3xx, A3xxsc
- T197000; High temp. option +1200°C/+2192°F for FLIR T/B2xx to T/B4xx and A3xx, A3xxf, A3xxpt, A3xxsc series
- 1910400; Power cord EU
- 1910401; Power cord US
- 1910402; Power cord UK
- T910922; Power supply, incl. multi plugs, for A3xx, A3xxsc, A6xx and A6xxsc
- T911182; Power supply for A3xx f, IP66
- 908929; Video cable, 3.0 m/9.8 ft.
- T951004ACC; Ethernet cable CAT-6, 2m/6.6 ft.
- 1910586ACC; Power cable, pigtailed
- T197871ACC; Hard transport case for A3xx/A6xx series
- T197870ACC; Cardboard box for A3xx/A6xx series
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

**P/N: 42701-1201**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 42701-1201  
Commit: 24651  
Language: en-US  
Modified: 2015-04-10 08:45  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR A320 Tempscreen (9 Hz) is a camera preconfigured to work well in applications where you need to find temperature deviations in a population of people, utilizing difference temperature alarms with a dynamically updated reference temperature.

In addition, the FLIR A320 Tempscreen provides an affordable and accurate temperature measurement solution for anyone who needs to solve problems that need built in "smartness" such as analysis, alarm functionality, and autonomous communication using standard protocols. The FLIR A320 Tempscreen also has all the necessary features and functions to build distributed single- or multi-camera solutions utilizing standard Ethernet hardware and software protocols.

## Key features:

- Screening: difference temperature alarm with a dynamic updated reference temperature (visualized by the isotherm).
- Built-in extensive analysis functionality.
- Extensive alarm functionality, as a function of analysis and more.
- On schedule: file sending (FTP) or e-mail (SMTP) of analysis results or images.
- On alarms: file sending (FTP) or e-mail (SMTP) of analysis results or images.
- MPEG-4 streaming.
- PoE (Power over Ethernet).
- Built-in web server.
- General purpose I/O.
- 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.).
- Synchronization through SNTP.
- Composite video output.
- Multi-camera utility software: FLIR IP Config and FLIR IR Monitor included.
- Open and well-described TCP/IP protocol for control and set-up.
- 16-bit 320 x 240 pixel images semi-real time, signal and temperature linear.
- Lenses: 25° included, 15° and 45° optional.

## Typical applications:

- Safety with temperature alarms (multi-camera applications), fire prevention, critical vessel monitoring, and power utility asset management.
- Volume-oriented industrial control (multi-camera installation is possible).

## Imaging and optical data

IR resolution	320 x 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	25° x 18.8°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
Spatial resolution (IFOV)	1.36 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	9 Hz
Focus	Automatic or manual (built in motor)
Zoom	1–8× continuous, digital, interpolating zooming on images


**P/N: 42701-1201**

© 2015, FLIR Systems, Inc.  
#42701-1201; r. 24651; en-US

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 $\mu\text{m}$
Detector pitch	25 $\mu\text{m}$
Detector time constant	Typical 12 ms
Measurement	
Object temperature range	<ul style="list-style-type: none"> <li>–20 to +120°C (–4 to +248°F)</li> <li>0 to +350°C (+32 to +662°F)</li> </ul>
Accuracy	$\pm 2^\circ\text{C}$ ( $\pm 3.6^\circ\text{F}$ ) or $\pm 2\%$ of reading
Measurement analysis	
Spotmeter	4
Area	4 boxes with max./min./average/position
Isotherm	1 with above/below/interval
Measurement option	Measurement Mask Filter Schedule response: File sending (ftp), email (SMTP)
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global and individual object parameters
Alarm	
Alarm functions	6 automatic alarms on any selected measurement function, Digital In, Camera temperature, timer
Screening	Difference temperature alarm with dynamic updated reference temperature (visualized by the isotherm)
Alarm output	Digital Out, log, store image, file sending (ftp), email (SMTP), notification
Set-up	
Color palettes	Color palettes (BW, BW inv, Iron, Rain)
Set-up commands	Date/time, Temperature ( $^\circ\text{C}/^\circ\text{F}$ )
Storage of images	
Storage media	Built-in memory for image storage
File formats	Standard JPEG, 16-bit measurement data included
Ethernet	
Ethernet	Control, result and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary
Ethernet, video streaming	MPEG-4, ISO/IEC 14496-1 MPEG-4 ASP@L5

P/N: 42701-1201

© 2015, FLIR Systems, Inc.  
#42701-1201; r. 24651; en-US

Ethernet	
Ethernet, image streaming	16-bit 320 × 240 pixels <ul style="list-style-type: none"> <li>• Signal linear</li> <li>• Temperature linear</li> <li>• Radiometric</li> </ul>
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0. <div>  <b>NOTE</b>  In cameras manufactured before 2013, due to an error in the implementation of power over Ethernet, in some rare cases the camera will not be powered. In such cases, power the camera using the external power cable, or modify the camera according to Service bulletin SB14-006. For modification, please contact your local service department. See <a href="http://support.flir.com/service">http://support.flir.com/service</a> for contact details. </div>
Ethernet, protocols	TCP, UDP, SNMP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Digital input/output	
Digital input, purpose	Image tag (start/stop/general), Input ext. device (programmatically read)
Digital input	2 opto-isolated, 0–1.5 V = low, 3–25 V = high
Digital output, purpose	As function of ALARM, Output to ext. device (programmatically set)
Digital output	2 opto-isolated, ON = supply (max. 100 mA), OFF = open
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	6–24 VDC, max. 200 mA
Digital I/O, connector type	6-pole jackable screw terminal

Composite video	
Video out	Composite video output, PAL and NTSC compatible
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC)
Video, connector type	Standard BNC connector

Power system	
External power operation	12/24 VDC, 24 W absolute max.
External power, connector type	2-pole jackable screw terminal
Voltage	Allowed range 10–30 VDC

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> <li>• EN 61000-6-2:2001 (Immunity)</li> <li>• EN 61000-6-3:2001 (Emission)</li> <li>• FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 40 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

**P/N: 42701-1201**

© 2015, FLIR Systems, Inc.  
#42701-1201; r. 24651; en-US

Physical data	
Weight	0.7 kg (1.54 lb.)
Camera size (L × W × H)	170 × 70 × 70 mm (6.7 × 2.8 × 2.8 in.)
Tripod mounting	UNC ¼"-20 (on three sides)
Base mounting	2 × M4 thread mounting holes (on three sides)
Housing material	Aluminum
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Ethernet cable</li> <li>• FLIR Tools download card</li> <li>• Mains cable</li> <li>• Power cable, pig-tailed</li> <li>• Power supply</li> <li>• Printed documentation</li> <li>• User documentation CD-ROM</li> <li>• Utility CD-ROM</li> </ul>
Packaging, weight	
Packaging, size	495 × 370 × 192 mm (19.5 × 14.6 × 7.6 in.)
EAN-13	7332558003404
UPC-12	845188003159
Country of origin	Sweden

**Supplies & accessories:**

- 1196961; IR lens, f = 30 mm, 15° incl. case
- 1196960; IR lens, f = 10 mm, 45° incl. case
- T197215; Close-up 4× (100 µm) incl. case
- T197214; Close-up 2× (50 µm) incl. case
- T197407; IR lens, 76 mm (6°) with case and mounting support for A3xx, A3xxsc
- T197411; IR lens, 4 mm (90°) with case and mounting support for A3xx, A3xxsc
- T197415; Close-up 1× (25 µm) incl. case and mounting support for A3xx, A3xxsc
- T197000; High temp. option +1200°C/+2192°F for FLIR T/B2xx to T/B4xx and A3xx, A3xxf, A3xxpt, A3xxsc series
- 1910400; Power cord EU
- 1910401; Power cord US
- 1910402; Power cord UK
- T910922; Power supply, incl. multi plugs, for A3xx, A3xxsc, A6xx and A6xxsc
- T911182; Power supply for A3xx f, IP66
- 908929; Video cable, 3.0 m/9.8 ft.
- T951004ACC; Ethernet cable CAT-6, 2m/6.6 ft.
- 1910586ACC; Power cable, pigtailed
- T197871ACC; Hard transport case for A3xx/A6xx series
- T197870ACC; Cardboard box for A3xx/A6xx series
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3



## P/N: 48001-1001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 48001-1001  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
The FLIR A325sc is an excellent choice for those working in R&D and need high frame rates but for whom 320 × 240 pixel resolution is sufficient. When using the camera in R&D, it is highly recommended to use the FLIR ResearchIR software from FLIR Systems.	
Key features:	
<ul style="list-style-type: none"> <li>Affordable.</li> <li>16-bit 320 × 240 pixel images at 60 Hz.</li> <li>Start-and-stop recording in FLIR ResearchIR using digital input.</li> <li>Lenses: 25° included, 15° and 45° optional.</li> </ul>	
Typical applications:	
<ul style="list-style-type: none"> <li>Entry- or mid-level industrial R&amp;D.</li> </ul>	
Imaging and optical data	
IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	25° × 18.8°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
Spatial resolution (IFOV)	1.36 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	60 Hz
Focus	Automatic or manual (built in motor)
Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm
Detector pitch	25 μm
Detector time constant	Typical 12 ms
Measurement	
Object temperature range	<ul style="list-style-type: none"> <li>–20 to +120°C (–4 to +248°F)</li> <li>0 to +350°C (+32 to +662°F)</li> </ul>
Accuracy	±2°C (±3.6°F) or ±2% of reading
Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature

**P/N: 48001-1001**

© 2015, FLIR Systems, Inc.  
#48001-1001; r. 24597; en-US

Measurement analysis	
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters
Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary and GenICam protocol
Ethernet, image streaming	16-bit 320 × 240 pixels @ 60 Hz <ul style="list-style-type: none"> <li>• Signal linear</li> <li>• Temperature linear</li> <li>• Radiometric</li> </ul> GigE Vision and GenICam compatible
Ethernet, protocols	TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP
Digital input/output	
Digital input, purpose	Image tag (start, stop, general), Image flow control, (stream on/off), Input ext. device (programmatically read)
Digital input	2 opto-isolated, 0–1.5 V = low, 3–25 V = high
Digital output, purpose	Output to ext. device (programmatically set)
Digital output	2 opto-isolated, ON = supply (max. 100 mA), OFF = open
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	6–24 VDC, max. 200 mA
Digital I/O, connector type	6-pole jackable screw terminal
Power system	
External power operation	12/24 VDC, 24 W absolute max.
External power, connector type	2-pole jackable screw terminal
Voltage	Allowed range 10–30 VDC
Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> <li>• EN 61000-6-2:2001 (Immunity)</li> <li>• EN 61000-6-3:2001 (Emission)</li> <li>• FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 40 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Physical data	
Weight	0.7 kg (1.54 lb.)
Camera size (L × W × H)	170 × 70 × 70 mm (6.7 × 2.8 × 2.8 in.)
Tripod mounting	UNC ¼"-20 (on three sides)
Base mounting	2 × M4 thread mounting holes (on three sides)
Housing material	Aluminum

**P/N: 48001-1001**

© 2015, FLIR Systems, Inc.  
#48001-1001; r. 24597; en-US

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Ethernet cable</li> <li>• FLIR ResearchIR Max 4 (licence only)</li> <li>• FLIR Tools download card</li> <li>• Hard transport case</li> <li>• Mains cable</li> <li>• Power cable, pig-tailed</li> <li>• Power supply</li> <li>• Printed documentation</li> <li>• User documentation CD-ROM</li> </ul>
Packaging, weight	5.0 kg (11.0 lb.)
Packaging, size	495 × 370 × 192 mm (19.5 × 14.6 × 7.6 in.)
EAN-13	7332558004203
UPC-12	845188004231
Country of origin	Sweden

**Supplies & accessories:**

- 1196961; IR lens, f = 30 mm, 15° incl. case
- 1196960; IR lens, f = 10 mm, 45° incl. case
- T197215; Close-up 4× (100 µm) incl. case
- T197214; Close-up 2× (50 µm) incl. case
- T197407; IR lens, 76 mm (6°) with case and mounting support for A3xx, A3xxsc
- T197411; IR lens, 4 mm (90°) with case and mounting support for A3xx, A3xxsc
- T197415; Close-up 1× (25 µm) incl. case and mounting support for A3xx, A3xxsc
- T197000; High temp. option +1200°C/+2192°F for FLIR T/B2xx to T/B4xx and A3xx, A3xxf, A3xxpt, A3xxsc series
- 1910400; Power cord EU
- 1910401; Power cord US
- 1910402; Power cord UK
- T910922; Power supply, incl. multi plugs, for A3xx, A3xxsc, A6xx and A6xxsc
- T911182; Power supply for A3xx f, IP66
- T951004ACC; Ethernet cable CAT-6, 2m/6.6 ft.
- 1910586ACC; Power cable, pigtailed
- T197871ACC; Hard transport case for A3xx/A6xx series
- T197870ACC; Cardboard box for A3xx/A6xx series
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

# FLIR A3xxf series

---

## P/N: 61201-1003

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 61201-1003  
Commit: 24652  
Language: en-US  
Modified: 2015-04-10 08:49  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The main purpose of the housing on the FLIR A300f is to increase the environmental specification of the standard FLIR A300 to IP66 without affecting any of the features available in the camera itself.

The built-in FLIR A300 camera provides an affordable and accurate temperature measurement solution for anyone who needs to solve problems that do not call for the highest speed or reaction and who uses a PC. Due to its composite video output, it is also an excellent choice for thermal image automation applications, where you can utilize its unique properties such as looking through steam.

#### Key features:

- Encapsulation to IP66.
- MPEG-4 streaming.
- PoE (Power over Ethernet).
- Built-in web server.
- General purpose I/O.
- 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.).
- Synchronization through SNTP.
- Composite video output.
- Multi-camera utility software: FLIR IP Config and FLIR IR Monitor included.
- Open and well-described TCP/IP protocol for control and set-up.
- 16-bit 320 × 240 pixel images at 3 Hz, radiometric.

#### Typical applications:

- Fire prevention, critical vessel monitoring, and power utility asset management
- Volume-oriented industrial control (multi-camera installation is possible)

### Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	25° × 18.8°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
Spatial resolution (IFOV)	1.36 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	30 Hz
Focus	Automatic or manual (built in motor)
Zoom	1–8× continuous, digital, interpolating zooming on images

### Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 µm
Detector pitch	25 µm
Detector time constant	Typical 12 ms

**P/N: 61201-1003**

© 2015, FLIR Systems, Inc.  
#61201-1003; r. 24652; en-US

Measurement	
Object temperature range	<ul style="list-style-type: none"> <li>–20 to +120°C (–4 to +248°F)</li> <li>0 to +350°C (+32 to +662°F)</li> </ul>
Accuracy	±4°C (±7.2°F) or ±4% of reading
Set-up	
Color palettes	Color palettes (BW, BW inv, Iron, Rain)
Set-up commands	Date/time, Temperature (°C/°F)
Storage of images	
Storage media	Built-in memory for image storage
File formats	Standard JPEG, 16-bit measurement data included
Ethernet	
Ethernet	Control and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary
Ethernet, video streaming	MPEG-4, ISO/IEC 14496-1 MPEG-4 ASP@L5
Ethernet, image streaming	16-bit 320 × 240 pixels @ 3 Hz - Radiometric
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0
Ethernet, protocols	TCP, UDP, SNMP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP
Digital input/output	
Digital input, purpose	Image tag (start/stop/general), Input ext. device (programmatically read)
Digital input	2 opto-isolated, 10–30 VDC
Digital output, purpose	Output to ext. device (programmatically set)
Digital output	2 opto-isolated, 10–30 VDC, max. 100 mA
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	12/24 VDC, max. 200 mA
Digital I/O, connector type	6-pole jackable screw terminal
Composite video	
Video out	Composite video output, PAL and NTSC compatible
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC)
Video, connector type	Standard BNC connector
Power system	
External power operation	The camera operates on 12/24 VDC, 9 W max. (allowed range: 10-30 VDC) and heaters on 24 VDC, 25 W max. In total: 34 W.
External power, connector type	2-pole jackable screw terminal
Voltage	Allowed range 10–30 VDC
Environmental data	
Operating temperature range	–25°C to +50°C (–13°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)

**P/N: 61201-1003**

© 2015, FLIR Systems, Inc.  
#61201-1003; r. 24652; en-US

Environmental data	
EMC	<ul style="list-style-type: none"> <li>• EN 61000-6-2 (Immunity)</li> <li>• EN 61000-6-3 (Emission)</li> <li>• FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 66 (IEC 60529)
Bump	5 g, 11 ms (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Physical data	
Weight	5 kg (11.0 lb.)
Size (L × W × H)	460 × 140 × 159 mm (18.1 × 5.5 × 6.3 in.)
Base mounting	
Housing material	Aluminum
System features	
External power operation (heater)	24 VDC, 25 W max.
External power, connector type (heater)	2-pole jackable screw terminal
Voltage (heater)	Allowed range 21-30 VDC
Automatic heaters	Clears window from ice
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens and environmental housing</li> <li>• FLIR Sensors Manager download card</li> <li>• FLIR Tools &amp; Utilities CD-ROM</li> <li>• Lens cap</li> <li>• Printed documentation</li> <li>• Small accessories kit</li> <li>• User documentation CD-ROM</li> </ul>
Packaging, weight	
Packaging, size	534 × 207 × 230 mm (21.0 × 8.1 × 9.1 in.)
EAN-13	7332558008843
UPC-12	845188009380
Country of origin	Sweden

**Supplies & accessories:**

- T197000; High temp. option +1200°C/+2192°F for FLIR T/B2xx to T/B4xx and A3xx, A3xxf, A3xxpt, A3xxsc series
- T911182; Power supply for A3xx f, IP66
- 908929; Video cable, 3.0 m/9.8 ft.
- T951004ACC; Ethernet cable CAT-6, 2m/6.6 ft.
- 1910586ACC; Power cable, pigtailed
- 324-0004-00; HARD CASE - WITH FOAM, F - SERIES
- 500-0463-00; PEDESTAL MOUNT ASSY - F-SERIES
- 4119507; POLE ADAPTER - F-SERIES
- 500-0462-00; WALL MOUNT ASSY - F-SERIES
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

## P/N: 61201-1004

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 61201-1004  
Commit: 24652  
Language: en-US  
Modified: 2015-04-10 08:49  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The main purpose of the housing on the FLIR A300f is to increase the environmental specification of the standard FLIR A300 to IP66 without affecting any of the features available in the camera itself.

The built-in FLIR A300 camera provides an affordable and accurate temperature measurement solution for anyone who needs to solve problems that do not call for the highest speed or reaction and who uses a PC. Due to its composite video output, it is also an excellent choice for thermal image automation applications, where you can utilize its unique properties such as looking through steam.

#### Key features:

- Encapsulation to IP66.
- MPEG-4 streaming.
- PoE (Power over Ethernet).
- Built-in web server.
- General purpose I/O.
- 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.).
- Synchronization through SNTP.
- Composite video output.
- Multi-camera utility software: FLIR IP Config and FLIR IR Monitor included.
- Open and well-described TCP/IP protocol for control and set-up.
- 16-bit 320 × 240 pixel images at 3 Hz, radiometric.

#### Typical applications:

- Fire prevention, critical vessel monitoring, and power utility asset management
- Volume-oriented industrial control (multi-camera installation is possible)

### Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	45° × 33.8°
Minimum focus distance	0.20 m (0.66 ft.)
Focal length	9.66 mm (0.38 in.)
Spatial resolution (IFOV)	2.45 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	30 Hz
Focus	Automatic or manual (built in motor)
Zoom	1–8× continuous, digital, interpolating zooming on images

### Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm
Detector pitch	25 μm
Detector time constant	Typical 12 ms



P/N: 61201-1004

© 2015, FLIR Systems, Inc.  
#61201-1004; r. 24652; en-US

Measurement	
Object temperature range	<ul style="list-style-type: none"> <li>–20 to +120°C (–4 to +248°F)</li> <li>0 to +350°C (+32 to +662°F)</li> </ul>
Accuracy	±4°C (±7.2°F) or ±4% of reading
Set-up	
Color palettes	Color palettes (BW, BW inv, Iron, Rain)
Set-up commands	Date/time, Temperature (°C/°F)
Storage of images	
Storage media	Built-in memory for image storage
File formats	Standard JPEG, 16-bit measurement data included
Ethernet	
Ethernet	Control and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary
Ethernet, video streaming	MPEG-4, ISO/IEC 14496-1 MPEG-4 ASP@L5
Ethernet, image streaming	16-bit 320 × 240 pixels @ 3 Hz - Radiometric
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0
Ethernet, protocols	TCP, UDP, SNMP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP
Digital input/output	
Digital input, purpose	Image tag (start/stop/general), Input ext. device (programmatically read)
Digital input	2 opto-isolated, 10–30 VDC
Digital output, purpose	Output to ext. device (programmatically set)
Digital output	2 opto-isolated, 10–30 VDC, max. 100 mA
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	12/24 VDC, max. 200 mA
Digital I/O, connector type	6-pole jackable screw terminal
Composite video	
Video out	Composite video output, PAL and NTSC compatible
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC)
Video, connector type	Standard BNC connector
Power system	
External power operation	The camera operates on 12/24 VDC, 9 W max. (allowed range: 10-30 VDC) and heaters on 24 VDC, 25 W max. In total: 34 W.
External power, connector type	2-pole jackable screw terminal
Voltage	Allowed range 10–30 VDC
Environmental data	
Operating temperature range	–25°C to +50°C (–13°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)

**P/N: 61201-1004**

© 2015, FLIR Systems, Inc.  
#61201-1004; r. 24652; en-US

Environmental data	
EMC	<ul style="list-style-type: none"> <li>• EN 61000-6-2 (Immunity)</li> <li>• EN 61000-6-3 (Emission)</li> <li>• FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 66 (IEC 60529)
Bump	5 g, 11 ms (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Physical data	
Weight	4.8 kg (10.6 lb.)
Size (L × W × H)	460 × 140 × 159 mm (18.1 × 5.5 × 6.3 in.)
Base mounting	
Housing material	Aluminum
System features	
External power operation (heater)	24 VDC, 25 W max.
External power, connector type (heater)	2-pole jackable screw terminal
Voltage (heater)	Allowed range 21-30 VDC
Automatic heaters	Clears window from ice
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens and environmental housing</li> <li>• FLIR Sensors Manager download card</li> <li>• FLIR Tools &amp; Utilities CD-ROM</li> <li>• Lens cap</li> <li>• Printed documentation</li> <li>• Small accessories kit</li> <li>• User documentation CD-ROM</li> </ul>
Packaging, weight	
Packaging, size	534 × 207 × 230 mm (21.0 × 8.1 × 9.1 in.)
EAN-13	7332558005514
UPC-12	845188005719
Country of origin	Sweden

**Supplies & accessories:**

- T197000; High temp. option +1200°C/+2192°F for FLIR T/B2xx to T/B4xx and A3xx, A3xxf, A3xxpt, A3xxsc series
- T911182; Power supply for A3xx f, IP66
- 908929; Video cable, 3.0 m/9.8 ft.
- T951004ACC; Ethernet cable CAT-6, 2m/6.6 ft.
- 1910586ACC; Power cable, pigtailed
- 324-0004-00; HARD CASE - WITH FOAM, F - SERIES
- 500-0463-00; PEDESTAL MOUNT ASSY - F-SERIES
- 4119507; POLE ADAPTER - F-SERIES
- 500-0462-00; WALL MOUNT ASSY - F-SERIES
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

## P/N: 61201-1102

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 61201-1102  
Commit: 24652  
Language: en-US  
Modified: 2015-04-10 08:49  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The main purpose of the housing on the FLIR A310f is to increase the environmental specification of the standard FLIR A310 to IP66 without affecting any of the features available in the camera itself.

The built-in FLIR A310 camera offers an affordable and accurate temperature measurement solution for anyone who needs to solve problems that need built-in "smartness" such as analysis, alarm functionality, and autonomous communication using standard protocols. The FLIR A310 camera also has all the necessary features and functions to build distributed single- or multi-camera solutions utilizing standard Ethernet hardware and software protocols.

The FLIR A310 camera also has built-in support to connect to industrial control equipment such as PLCs, and allows for sharing of analysis and alarm results and simple control using the Ethernet/IP and Modbus TCP field bus protocols.

### Key features:

- Encapsulation to IP66.
- Support for the Ethernet/IP field bus protocol (analyze, alarm, and simple camera control).
- Support for the Modbus TCP field bus protocol (analyze, alarm, and simple camera control).
- Built-in extensive analysis functionality.
- Extensive alarm functionality, as a function of analysis and more.
- On schedule: file sending (FTP) or e-mail (SMTP) of analysis results or images.
- On alarms: file sending (FTP) or e-mail (SMTP) of analysis results or images.
- MPEG-4 streaming.
- PoE (Power over Ethernet).
- Built-in web server.
- General purpose I/O.
- 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.).
- Synchronization through SNTP.
- Composite video output.
- Multi-camera utility software: FLIR IP Config and FLIR IR Monitor included.
- Open and well-described TCP/IP protocol for control and set-up.
- 16-bit 320 × 240 pixel images at 7–8 Hz, radiometric.

### Typical applications:

- Safety with temperature alarms (multi-camera applications), fire prevention, critical vessel monitoring, and power utility asset management.
- Volume-oriented industrial control (multi-camera installation is possible).

### Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	15° × 11.25°
Minimum focus distance	1.2 m (3.93 ft.)
Focal length	30.38 mm (1.2 in.)
Spatial resolution (IFOV)	0.82 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	30 Hz

P/N: 61201-1102

© 2015, FLIR Systems, Inc.  
#61201-1102; r. 24652; en-US

Imaging and optical data	
Focus	Automatic or manual (built in motor)
Zoom	1–8× continuous, digital, interpolating zooming on images
Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm
Detector pitch	25 μm
Detector time constant	Typical 12 ms
Measurement	
Object temperature range	<ul style="list-style-type: none"> <li>–20 to +120°C (–4 to +248°F)</li> <li>0 to +350°C (+32 to +662°F)</li> </ul>
Accuracy	±4°C (±7.2°F) or ±4% of reading
Measurement analysis	
Spotmeter	10
Area	10 boxes with max./min./average/position
Isotherm	1 with above/below/interval
Measurement option	Measurement Mask Filter Schedule response: File sending (ftp), email (SMTP)
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global and individual object parameters
Alarm	
Alarm functions	6 automatic alarms on any selected measurement function, Digital In, Camera temperature, timer
Alarm output	Digital Out, log, store image, file sending (ftp), email (SMTP), notification
Set-up	
Color palettes	Color palettes (BW, BW inv, Iron, Rain)
Set-up commands	Date/time, Temperature (°C/°F)
Storage of images	
Storage media	Built-in memory for image storage
File formats	Standard JPEG, 16-bit measurement data included
Ethernet	
Ethernet	Control, result and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary

**P/N: 61201-1102**

© 2015, FLIR Systems, Inc.  
#61201-1102; r. 24652; en-US

<b>Ethernet</b>	
Ethernet, video streaming	MPEG-4, ISO/IEC 14496-1 MPEG-4 ASP@L5
Ethernet, image streaming	16-bit 320 × 240 pixels @ 7-8 Hz - Radiometric
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0
Ethernet, protocols	Ethernet/IP, Modbus TCP, TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

<b>Digital input/output</b>	
Digital input, purpose	Image tag (start/stop/general), Input ext. device (programmatically read)
Digital input	2 opto-isolated, 10–30 VDC
Digital output, purpose	As function of ALARM, Output to ext. device (programmatically set)
Digital output	2 opto-isolated, 10–30 VDC, max. 100 mA
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	12/24 VDC, max. 200 mA
Digital I/O, connector type	6-pole jackable screw terminal

<b>Composite video</b>	
Video out	Composite video output, PAL and NTSC compatible
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC)
Video, connector type	Standard BNC connector

<b>Power system</b>	
External power operation	The camera operates on 12/24 VDC, 9 W max. (allowed range: 10-30 VDC) and heaters on 24 VDC, 25 W max. In total: 34 W.
External power, connector type	2-pole jackable screw terminal
Voltage	Allowed range 10–30 VDC

<b>Environmental data</b>	
Operating temperature range	–25°C to +50°C (–13°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> <li>EN 61000-6-2 (Immunity)</li> <li>EN 61000-6-3 (Emission)</li> <li>FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 66 (IEC 60529)
Bump	5 g, 11 ms (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

<b>Physical data</b>	
Weight	4.8 kg (10.6 lb.)
Size (L × W × H)	460 × 140 × 159 mm (18.1 × 5.5 × 6.3 in.)
Base mounting	
Housing material	Aluminum

<b>System features</b>	
External power operation (heater)	24 VDC, 25 W max.
External power, connector type (heater)	2-pole jackable screw terminal
Voltage (heater)	Allowed range 21-30 VDC
Automatic heaters	Clears window from ice

**P/N: 61201-1102**

© 2015, FLIR Systems, Inc.  
#61201-1102; r. 24652; en-US

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens and environmental housing</li> <li>• FLIR Sensors Manager download card</li> <li>• FLIR Tools &amp; Utilities CD-ROM</li> <li>• Lens cap</li> <li>• Printed documentation</li> <li>• Small accessories kit</li> <li>• User documentation CD-ROM</li> </ul>
Packaging, weight	
Packaging, size	534 × 207 × 230 mm (21.0 × 8.1 × 9.1 in.)
EAN-13	7332558004845
UPC-12	845188004866
Country of origin	Sweden

**Supplies & accessories:**

- T197000; High temp. option +1200°C/+2192°F for FLIR T/B2xx to T/B4xx and A3xx, A3xxf, A3xxpt, A3xxsc series
- T911182; Power supply for A3xx f, IP66
- 908929; Video cable, 3.0 m/9.8 ft.
- T951004ACC; Ethernet cable CAT-6, 2m/6.6 ft.
- 1910586ACC; Power cable, pigtailed
- 324-0004-00; HARD CASE - WITH FOAM, F - SERIES
- 500-0463-00; PEDESTAL MOUNT ASSY - F-SERIES
- 4119507; POLE ADAPTER - F-SERIES
- 500-0462-00; WALL MOUNT ASSY - F-SERIES
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3
- 4130235; FLIR Sensors Manager, pro

## P/N: 61201-1103

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 61201-1103  
Commit: 24652  
Language: en-US  
Modified: 2015-04-10 08:49  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The main purpose of the housing on the FLIR A310f is to increase the environmental specification of the standard FLIR A310 to IP66 without affecting any of the features available in the camera itself.

The built-in FLIR A310 camera offers an affordable and accurate temperature measurement solution for anyone who needs to solve problems that need built-in "smartness" such as analysis, alarm functionality, and autonomous communication using standard protocols. The FLIR A310 camera also has all the necessary features and functions to build distributed single- or multi-camera solutions utilizing standard Ethernet hardware and software protocols.

The FLIR A310 camera also has built-in support to connect to industrial control equipment such as PLCs, and allows for sharing of analysis and alarm results and simple control using the Ethernet/IP and Modbus TCP field bus protocols.

### Key features:

- Encapsulation to IP66.
- Support for the Ethernet/IP field bus protocol (analyze, alarm, and simple camera control).
- Support for the Modbus TCP field bus protocol (analyze, alarm, and simple camera control).
- Built-in extensive analysis functionality.
- Extensive alarm functionality, as a function of analysis and more.
- On schedule: file sending (FTP) or e-mail (SMTP) of analysis results or images.
- On alarms: file sending (FTP) or e-mail (SMTP) of analysis results or images.
- MPEG-4 streaming.
- PoE (Power over Ethernet).
- Built-in web server.
- General purpose I/O.
- 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.).
- Synchronization through SNTP.
- Composite video output.
- Multi-camera utility software: FLIR IP Config and FLIR IR Monitor included.
- Open and well-described TCP/IP protocol for control and set-up.
- 16-bit 320 × 240 pixel images at 7–8 Hz, radiometric.

### Typical applications:

- Safety with temperature alarms (multi-camera applications), fire prevention, critical vessel monitoring, and power utility asset management.
- Volume-oriented industrial control (multi-camera installation is possible).

### Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	25° × 18.8°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
Spatial resolution (IFOV)	1.36 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	30 Hz

P/N: 61201-1103

© 2015, FLIR Systems, Inc.  
#61201-1103; r. 24652; en-US

Imaging and optical data	
Focus	Automatic or manual (built in motor)
Zoom	1–8× continuous, digital, interpolating zooming on images
Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm
Detector pitch	25 μm
Detector time constant	Typical 12 ms
Measurement	
Object temperature range	<ul style="list-style-type: none"> <li>–20 to +120°C (–4 to +248°F)</li> <li>0 to +350°C (+32 to +662°F)</li> </ul>
Accuracy	±4°C (±7.2°F) or ±4% of reading
Measurement analysis	
Spotmeter	10
Area	10 boxes with max./min./average/position
Isotherm	1 with above/below/interval
Measurement option	Measurement Mask Filter Schedule response: File sending (ftp), email (SMTP)
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global and individual object parameters
Alarm	
Alarm functions	6 automatic alarms on any selected measurement function, Digital In, Camera temperature, timer
Alarm output	Digital Out, log, store image, file sending (ftp), email (SMTP), notification
Set-up	
Color palettes	Color palettes (BW, BW inv, Iron, Rain)
Set-up commands	Date/time, Temperature (°C/°F)
Storage of images	
Storage media	Built-in memory for image storage
File formats	Standard JPEG, 16-bit measurement data included
Ethernet	
Ethernet	Control, result and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary



**P/N: 61201-1103**

© 2015, FLIR Systems, Inc.  
#61201-1103; r. 24652; en-US

<b>Ethernet</b>	
Ethernet, video streaming	MPEG-4, ISO/IEC 14496-1 MPEG-4 ASP@L5
Ethernet, image streaming	16-bit 320 × 240 pixels @ 7-8 Hz - Radiometric
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0
Ethernet, protocols	Ethernet/IP, Modbus TCP, TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

<b>Digital input/output</b>	
Digital input, purpose	Image tag (start/stop/general), Input ext. device (programmatically read)
Digital input	2 opto-isolated, 10–30 VDC
Digital output, purpose	As function of ALARM, Output to ext. device (programmatically set)
Digital output	2 opto-isolated, 10–30 VDC, max. 100 mA
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	12/24 VDC, max. 200 mA
Digital I/O, connector type	6-pole jackable screw terminal

<b>Composite video</b>	
Video out	Composite video output, PAL and NTSC compatible
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC)
Video, connector type	Standard BNC connector

<b>Power system</b>	
External power operation	The camera operates on 12/24 VDC, 9 W max. (allowed range: 10-30 VDC) and heaters on 24 VDC, 25 W max. In total: 34 W.
External power, connector type	2-pole jackable screw terminal
Voltage	Allowed range 10–30 VDC

<b>Environmental data</b>	
Operating temperature range	–25°C to +50°C (–13°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> <li>EN 61000-6-2 (Immunity)</li> <li>EN 61000-6-3 (Emission)</li> <li>FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 66 (IEC 60529)
Bump	5 g, 11 ms (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

<b>Physical data</b>	
Weight	5 kg (11.0 lb.)
Size (L × W × H)	460 × 140 × 159 mm (18.1 × 5.5 × 6.3 in.)
Base mounting	
Housing material	Aluminum

<b>System features</b>	
External power operation (heater)	24 VDC, 25 W max.
External power, connector type (heater)	2-pole jackable screw terminal
Voltage (heater)	Allowed range 21-30 VDC
Automatic heaters	Clears window from ice

**P/N: 61201-1103**

© 2015, FLIR Systems, Inc.  
#61201-1103; r. 24652; en-US

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens and environmental housing</li> <li>• FLIR Sensors Manager download card</li> <li>• FLIR Tools &amp; Utilities CD-ROM</li> <li>• Lens cap</li> <li>• Printed documentation</li> <li>• Small accessories kit</li> <li>• User documentation CD-ROM</li> </ul>
Packaging, weight	
Packaging, size	534 × 207 × 230 mm (21.0 × 8.1 × 9.1 in.)
EAN-13	7332558004821
UPC-12	845188004842
Country of origin	Sweden

**Supplies & accessories:**

- T197000; High temp. option +1200°C/+2192°F for FLIR T/B2xx to T/B4xx and A3xx, A3xxf, A3xxpt, A3xxsc series
- T911182; Power supply for A3xx f, IP66
- 908929; Video cable, 3.0 m/9.8 ft.
- T951004ACC; Ethernet cable CAT-6, 2m/6.6 ft.
- 1910586ACC; Power cable, pigtailed
- 324-0004-00; HARD CASE - WITH FOAM, F - SERIES
- 500-0463-00; PEDESTAL MOUNT ASSY - F-SERIES
- 4119507; POLE ADAPTER - F-SERIES
- 500-0462-00; WALL MOUNT ASSY - F-SERIES
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3
- 4130235; FLIR Sensors Manager, pro

## P/N: 61201-1104

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 61201-1104  
Commit: 24652  
Language: en-US  
Modified: 2015-04-10 08:49  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The main purpose of the housing on the FLIR A310f is to increase the environmental specification of the standard FLIR A310 to IP66 without affecting any of the features available in the camera itself.

The built-in FLIR A310 camera offers an affordable and accurate temperature measurement solution for anyone who needs to solve problems that need built-in "smartness" such as analysis, alarm functionality, and autonomous communication using standard protocols. The FLIR A310 camera also has all the necessary features and functions to build distributed single- or multi-camera solutions utilizing standard Ethernet hardware and software protocols.

The FLIR A310 camera also has built-in support to connect to industrial control equipment such as PLCs, and allows for sharing of analysis and alarm results and simple control using the Ethernet/IP and Modbus TCP field bus protocols.

### Key features:

- Encapsulation to IP66.
- Support for the Ethernet/IP field bus protocol (analyze, alarm, and simple camera control).
- Support for the Modbus TCP field bus protocol (analyze, alarm, and simple camera control).
- Built-in extensive analysis functionality.
- Extensive alarm functionality, as a function of analysis and more.
- On schedule: file sending (FTP) or e-mail (SMTP) of analysis results or images.
- On alarms: file sending (FTP) or e-mail (SMTP) of analysis results or images.
- MPEG-4 streaming.
- PoE (Power over Ethernet).
- Built-in web server.
- General purpose I/O.
- 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.).
- Synchronization through SNTP.
- Composite video output.
- Multi-camera utility software: FLIR IP Config and FLIR IR Monitor included.
- Open and well-described TCP/IP protocol for control and set-up.
- 16-bit 320 × 240 pixel images at 7–8 Hz, radiometric.

### Typical applications:

- Safety with temperature alarms (multi-camera applications), fire prevention, critical vessel monitoring, and power utility asset management.
- Volume-oriented industrial control (multi-camera installation is possible).

### Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	45° × 33.8°
Minimum focus distance	0.20 m (0.66 ft.)
Focal length	9.66 mm (0.38 in.)
Spatial resolution (IFOV)	2.45 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	30 Hz

P/N: 61201-1104

© 2015, FLIR Systems, Inc.  
#61201-1104; r. 24652; en-US

Imaging and optical data	
Focus	Automatic or manual (built in motor)
Zoom	1–8× continuous, digital, interpolating zooming on images
Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm
Detector pitch	25 μm
Detector time constant	Typical 12 ms
Measurement	
Object temperature range	<ul style="list-style-type: none"> <li>–20 to +120°C (–4 to +248°F)</li> <li>0 to +350°C (+32 to +662°F)</li> </ul>
Accuracy	±4°C (±7.2°F) or ±4% of reading
Measurement analysis	
Spotmeter	10
Area	10 boxes with max./min./average/position
Isotherm	1 with above/below/interval
Measurement option	Measurement Mask Filter Schedule response: File sending (ftp), email (SMTP)
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global and individual object parameters
Alarm	
Alarm functions	6 automatic alarms on any selected measurement function, Digital In, Camera temperature, timer
Alarm output	Digital Out, log, store image, file sending (ftp), email (SMTP), notification
Set-up	
Color palettes	Color palettes (BW, BW inv, Iron, Rain)
Set-up commands	Date/time, Temperature (°C/°F)
Storage of images	
Storage media	Built-in memory for image storage
File formats	Standard JPEG, 16-bit measurement data included
Ethernet	
Ethernet	Control, result and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary

**P/N: 61201-1104**

© 2015, FLIR Systems, Inc.  
#61201-1104; r. 24652; en-US

Ethernet	
Ethernet, video streaming	MPEG-4, ISO/IEC 14496-1 MPEG-4 ASP@L5
Ethernet, image streaming	16-bit 320 × 240 pixels @ 7-8 Hz - Radiometric
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0
Ethernet, protocols	Ethernet/IP, Modbus TCP, TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Digital input/output	
Digital input, purpose	Image tag (start/stop/general), Input ext. device (programmatically read)
Digital input	2 opto-isolated, 10–30 VDC
Digital output, purpose	As function of ALARM, Output to ext. device (programmatically set)
Digital output	2 opto-isolated, 10–30 VDC, max. 100 mA
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	12/24 VDC, max. 200 mA
Digital I/O, connector type	6-pole jackable screw terminal

Composite video	
Video out	Composite video output, PAL and NTSC compatible
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC)
Video, connector type	Standard BNC connector

Power system	
External power operation	The camera operates on 12/24 VDC, 9 W max. (allowed range: 10-30 VDC) and heaters on 24 VDC, 25 W max. In total: 34 W.
External power, connector type	2-pole jackable screw terminal
Voltage	Allowed range 10–30 VDC

Environmental data	
Operating temperature range	–25°C to +50°C (–13°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> <li>EN 61000-6-2 (Immunity)</li> <li>EN 61000-6-3 (Emission)</li> <li>FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 66 (IEC 60529)
Bump	5 g, 11 ms (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	4.8 kg (10.6 lb.)
Size (L × W × H)	460 × 140 × 159 mm (18.1 × 5.5 × 6.3 in.)
Base mounting	
Housing material	Aluminum

System features	
External power operation (heater)	24 VDC, 25 W max.
External power, connector type (heater)	2-pole jackable screw terminal
Voltage (heater)	Allowed range 21-30 VDC
Automatic heaters	Clears window from ice

**P/N: 61201-1104**

© 2015, FLIR Systems, Inc.  
#61201-1104; r. 24652; en-US

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens and environmental housing</li> <li>• FLIR Sensors Manager download card</li> <li>• FLIR Tools &amp; Utilities CD-ROM</li> <li>• Lens cap</li> <li>• Printed documentation</li> <li>• Small accessories kit</li> <li>• User documentation CD-ROM</li> </ul>
Packaging, weight	
Packaging, size	534 × 207 × 230 mm (21.0 × 8.1 × 9.1 in.)
EAN-13	7332558005125
UPC-12	845188005320
Country of origin	Sweden

**Supplies & accessories:**

- T197000; High temp. option +1200°C/+2192°F for FLIR T/B2xx to T/B4xx and A3xx, A3xxf, A3xxpt, A3xxsc series
- T911182; Power supply for A3xx f, IP66
- 908929; Video cable, 3.0 m/9.8 ft.
- T951004ACC; Ethernet cable CAT-6, 2m/6.6 ft.
- 1910586ACC; Power cable, pigtailed
- 324-0004-00; HARD CASE - WITH FOAM, F - SERIES
- 500-0463-00; PEDESTAL MOUNT ASSY - F-SERIES
- 4119507; POLE ADAPTER - F-SERIES
- 500-0462-00; WALL MOUNT ASSY - F-SERIES
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3
- 4130235; FLIR Sensors Manager, pro

**P/N: 61201-1101**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 61201-1101  
Commit: 24652  
Language: en-US  
Modified: 2015-04-10 08:49  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The main purpose of the housing on the FLIR A310f is to increase the environmental specification of the standard FLIR A310 to IP66 without affecting any of the features available in the camera itself.

The built-in FLIR A310 camera offers an affordable and accurate temperature measurement solution for anyone who needs to solve problems that need built-in "smartness" such as analysis, alarm functionality, and autonomous communication using standard protocols. The FLIR A310 camera also has all the necessary features and functions to build distributed single- or multi-camera solutions utilizing standard Ethernet hardware and software protocols.

The FLIR A310 camera also has built-in support to connect to industrial control equipment such as PLCs, and allows for sharing of analysis and alarm results and simple control using the Ethernet/IP and Modbus TCP field bus protocols.

## Key features:

- Encapsulation to IP66.
- Support for the Ethernet/IP field bus protocol (analyze, alarm, and simple camera control).
- Support for the Modbus TCP field bus protocol (analyze, alarm, and simple camera control).
- Built-in extensive analysis functionality.
- Extensive alarm functionality, as a function of analysis and more.
- On schedule: file sending (FTP) or e-mail (SMTP) of analysis results or images.
- On alarms: file sending (FTP) or e-mail (SMTP) of analysis results or images.
- MPEG-4 streaming.
- PoE (Power over Ethernet).
- Built-in web server.
- General purpose I/O.
- 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.).
- Synchronization through SNTP.
- Composite video output.
- Multi-camera utility software: FLIR IP Config and FLIR IR Monitor included.
- Open and well-described TCP/IP protocol for control and set-up.
- 16-bit 320 × 240 pixel images at 7–8 Hz, radiometric.

## Typical applications:

- Safety with temperature alarms (multi-camera applications), fire prevention, critical vessel monitoring, and power utility asset management.
- Volume-oriented industrial control (multi-camera installation is possible).

## Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	6° × 4.5°
Minimum focus distance	4 m (13.11 ft.)
Focal length	76 mm (3.0 in.)
Spatial resolution (IFOV)	0.33 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	30 Hz

P/N: 61201-1101

© 2015, FLIR Systems, Inc.  
#61201-1101; r. 24652; en-US

Imaging and optical data	
Focus	Automatic or manual (built in motor)
Zoom	1–8× continuous, digital, interpolating zooming on images
Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm
Detector pitch	25 μm
Detector time constant	Typical 12 ms
Measurement	
Object temperature range	<ul style="list-style-type: none"> <li>–20 to +120°C (–4 to +248°F)</li> <li>0 to +350°C (+32 to +662°F)</li> </ul>
Accuracy	±4°C (±7.2°F) or ±4% of reading
Measurement analysis	
Spotmeter	10
Area	10 boxes with max./min./average/position
Isotherm	1 with above/below/interval
Measurement option	Measurement Mask Filter Schedule response: File sending (ftp), email (SMTP)
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global and individual object parameters
Alarm	
Alarm functions	6 automatic alarms on any selected measurement function, Digital In, Camera temperature, timer
Alarm output	Digital Out, log, store image, file sending (ftp), email (SMTP), notification
Set-up	
Color palettes	Color palettes (BW, BW inv, Iron, Rain)
Set-up commands	Date/time, Temperature (°C/°F)
Storage of images	
Storage media	Built-in memory for image storage
File formats	Standard JPEG, 16-bit measurement data included
Ethernet	
Ethernet	Control, result and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary



**P/N: 61201-1101**

© 2015, FLIR Systems, Inc.  
#61201-1101; r. 24652; en-US

<b>Ethernet</b>	
Ethernet, video streaming	MPEG-4, ISO/IEC 14496-1 MPEG-4 ASP@L5
Ethernet, image streaming	16-bit 320 × 240 pixels @ 7-8 Hz - Radiometric
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0
Ethernet, protocols	Ethernet/IP, Modbus TCP, TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

<b>Digital input/output</b>	
Digital input, purpose	Image tag (start/stop/general), Input ext. device (programmatically read)
Digital input	2 opto-isolated, 10–30 VDC
Digital output, purpose	As function of ALARM, Output to ext. device (programmatically set)
Digital output	2 opto-isolated, 10–30 VDC, max. 100 mA
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	12/24 VDC, max. 200 mA
Digital I/O, connector type	6-pole jackable screw terminal

<b>Composite video</b>	
Video out	Composite video output, PAL and NTSC compatible
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC)
Video, connector type	Standard BNC connector

<b>Power system</b>	
External power operation	The camera operates on 12/24 VDC, 9 W max. (allowed range: 10-30 VDC) and heaters on 24 VDC, 25 W max. In total: 34 W.
External power, connector type	2-pole jackable screw terminal
Voltage	Allowed range 10–30 VDC

<b>Environmental data</b>	
Operating temperature range	–25°C to +50°C (–13°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> <li>EN 61000-6-2 (Immunity)</li> <li>EN 61000-6-3 (Emission)</li> <li>FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 66 (IEC 60529)
Bump	5 g, 11 ms (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

<b>Physical data</b>	
Weight	5 kg (11.0 lb.)
Size (L × W × H)	460 × 140 × 159 mm (18.1 × 5.5 × 6.3 in.)
Base mounting	
Housing material	Aluminum

<b>System features</b>	
External power operation (heater)	24 VDC, 25 W max.
External power, connector type (heater)	2-pole jackable screw terminal
Voltage (heater)	Allowed range 21-30 VDC
Automatic heaters	Clears window from ice

**P/N: 61201-1101**

© 2015, FLIR Systems, Inc.  
#61201-1101; r. 24652; en-US

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens and environmental housing</li> <li>• FLIR Sensors Manager download card</li> <li>• FLIR Tools &amp; Utilities CD-ROM</li> <li>• Lens cap</li> <li>• Printed documentation</li> <li>• Small accessories kit</li> <li>• User documentation CD-ROM</li> </ul>
Packaging, weight	
Packaging, size	534 × 207 × 230 mm (21.0 × 8.1 × 9.1 in.)
EAN-13	7332558005682
UPC-12	845188005894
Country of origin	Sweden

**Supplies & accessories:**

- T197000; High temp. option +1200°C/+2192°F for FLIR T/B2xx to T/B4xx and A3xx, A3xxf, A3xxpt, A3xxsc series
- T911182; Power supply for A3xx f, IP66
- 908929; Video cable, 3.0 m/9.8 ft.
- T951004ACC; Ethernet cable CAT-6, 2m/6.6 ft.
- 1910586ACC; Power cable, pigtailed
- 324-0004-00; HARD CASE - WITH FOAM, F - SERIES
- 500-0463-00; PEDESTAL MOUNT ASSY - F-SERIES
- 4119507; POLE ADAPTER - F-SERIES
- 500-0462-00; WALL MOUNT ASSY - F-SERIES
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3
- 4130235; FLIR Sensors Manager, pro

## P/N: 61201-1105

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 61201-1105  
Commit: 24652  
Language: en-US  
Modified: 2015-04-10 08:49  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The main purpose of the housing on the FLIR A310f is to increase the environmental specification of the standard FLIR A310 to IP66 without affecting any of the features available in the camera itself.

The built-in FLIR A310 camera offers an affordable and accurate temperature measurement solution for anyone who needs to solve problems that need built-in "smartness" such as analysis, alarm functionality, and autonomous communication using standard protocols. The FLIR A310 camera also has all the necessary features and functions to build distributed single- or multi-camera solutions utilizing standard Ethernet hardware and software protocols.

The FLIR A310 camera also has built-in support to connect to industrial control equipment such as PLCs, and allows for sharing of analysis and alarm results and simple control using the Ethernet/IP and Modbus TCP field bus protocols.

### Key features:

- Encapsulation to IP66.
- Support for the Ethernet/IP field bus protocol (analyze, alarm, and simple camera control).
- Support for the Modbus TCP field bus protocol (analyze, alarm, and simple camera control).
- Built-in extensive analysis functionality.
- Extensive alarm functionality, as a function of analysis and more.
- On schedule: file sending (FTP) or e-mail (SMTP) of analysis results or images.
- On alarms: file sending (FTP) or e-mail (SMTP) of analysis results or images.
- MPEG-4 streaming.
- PoE (Power over Ethernet).
- Built-in web server.
- General purpose I/O.
- 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.).
- Synchronization through SNTP.
- Composite video output.
- Multi-camera utility software: FLIR IP Config and FLIR IR Monitor included.
- Open and well-described TCP/IP protocol for control and set-up.
- 16-bit 320 × 240 pixel images at 7–8 Hz, radiometric.

### Typical applications:

- Safety with temperature alarms (multi-camera applications), fire prevention, critical vessel monitoring, and power utility asset management.
- Volume-oriented industrial control (multi-camera installation is possible).

### Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05 °C @ +30 °C (+86 °F) / 50 mK
Field of view (FOV)	90° × 73°
Minimum focus distance	20 mm (0.79 in.)
Focal length	4 mm (0.157 in.)
Spatial resolution (IFOV)	6.3 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	30 Hz

**P/N: 61201-1105**

© 2015, FLIR Systems, Inc.  
#61201-1105; r. 24652; en-US

Imaging and optical data	
Focus	Automatic or manual (built in motor)
Zoom	1–8× continuous, digital, interpolating zooming on images
Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm
Detector pitch	25 μm
Detector time constant	Typical 12 ms
Measurement	
Object temperature range	<ul style="list-style-type: none"> <li>–20 to +120°C (–4 to +248°F)</li> <li>0 to +350°C (+32 to +662°F)</li> </ul>
Accuracy	±4°C (±7.2°F) or ±4% of reading
Measurement analysis	
Spotmeter	10
Area	10 boxes with max./min./average/position
Isotherm	1 with above/below/interval
Measurement option	Measurement Mask Filter Schedule response: File sending (ftp), email (SMTP)
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global and individual object parameters
Alarm	
Alarm functions	6 automatic alarms on any selected measurement function, Digital In, Camera temperature, timer
Alarm output	Digital Out, log, store image, file sending (ftp), email (SMTP), notification
Set-up	
Color palettes	Color palettes (BW, BW inv, Iron, Rain)
Set-up commands	Date/time, Temperature (°C/°F)
Storage of images	
Storage media	Built-in memory for image storage
File formats	Standard JPEG, 16-bit measurement data included
Ethernet	
Ethernet	Control, result and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary

**P/N: 61201-1105**

© 2015, FLIR Systems, Inc.  
#61201-1105; r. 24652; en-US

<b>Ethernet</b>	
Ethernet, video streaming	MPEG-4, ISO/IEC 14496-1 MPEG-4 ASP@L5
Ethernet, image streaming	16-bit 320 × 240 pixels @ 7-8 Hz - Radiometric
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0
Ethernet, protocols	Ethernet/IP, Modbus TCP, TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

<b>Digital input/output</b>	
Digital input, purpose	Image tag (start/stop/general), Input ext. device (programmatically read)
Digital input	2 opto-isolated, 10–30 VDC
Digital output, purpose	As function of ALARM, Output to ext. device (programmatically set)
Digital output	2 opto-isolated, 10–30 VDC, max. 100 mA
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	12/24 VDC, max. 200 mA
Digital I/O, connector type	6-pole jackable screw terminal

<b>Composite video</b>	
Video out	Composite video output, PAL and NTSC compatible
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC)
Video, connector type	Standard BNC connector

<b>Power system</b>	
External power operation	The camera operates on 12/24 VDC, 9 W max. (allowed range: 10-30 VDC) and heaters on 24 VDC, 25 W max. In total: 34 W.
External power, connector type	2-pole jackable screw terminal
Voltage	Allowed range 10–30 VDC

<b>Environmental data</b>	
Operating temperature range	–25°C to +50°C (–13°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> <li>EN 61000-6-2 (Immunity)</li> <li>EN 61000-6-3 (Emission)</li> <li>FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 66 (IEC 60529)
Bump	5 g, 11 ms (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

<b>Physical data</b>	
Weight	5 kg (11.0 lb.)
Size (L × W × H)	460 × 140 × 159 mm (18.1 × 5.5 × 6.3 in.)
Base mounting	
Housing material	Aluminum

<b>System features</b>	
External power operation (heater)	24 VDC, 25 W max.
External power, connector type (heater)	2-pole jackable screw terminal
Voltage (heater)	Allowed range 21-30 VDC
Automatic heaters	Clears window from ice

**P/N: 61201-1105**

© 2015, FLIR Systems, Inc.  
#61201-1105; r. 24652; en-US

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens and environmental housing</li> <li>• FLIR Sensors Manager download card</li> <li>• FLIR Tools &amp; Utilities CD-ROM</li> <li>• Lens cap</li> <li>• Printed documentation</li> <li>• Small accessories kit</li> <li>• User documentation CD-ROM</li> </ul>
Packaging, weight	
Packaging, size	534 × 207 × 230 mm (21.0 × 8.1 × 9.1 in.)
EAN-13	7332558004258
UPC-12	845188004279
Country of origin	Sweden

**Supplies & accessories:**

- T197000; High temp. option +1200°C/+2192°F for FLIR T/B2xx to T/B4xx and A3xx, A3xxf, A3xxpt, A3xxsc series
- T911182; Power supply for A3xx f, IP66
- 908929; Video cable, 3.0 m/9.8 ft.
- T951004ACC; Ethernet cable CAT-6, 2m/6.6 ft.
- 1910586ACC; Power cable, pigtailed
- 324-0004-00; HARD CASE - WITH FOAM, F - SERIES
- 500-0463-00; PEDESTAL MOUNT ASSY - F-SERIES
- 4119507; POLE ADAPTER - F-SERIES
- 500-0462-00; WALL MOUNT ASSY - F-SERIES
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3
- 4130235; FLIR Sensors Manager, pro

## P/N: 61201-1203

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 61201-1203  
Commit: 24652  
Language: en-US  
Modified: 2015-04-10 08:49  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The main purpose of the housing on the FLIR A315f is to increase the environmental specification of the standard FLIR A315 to IP66 without affecting any of the features available in the camera itself.

The built-in FLIR A315 camera has features and functions that make it the natural choice for anyone who uses PC software to solve problems and for whom 320 × 240 pixel resolution is sufficient. Among its main features are GigE Vision and GenICam compliance, which makes it plug-and-play when used with software packages such as IMAQ Vision and Halcon.

#### Key features:

- Encapsulation to IP66.
- Affordable.
- GigE compliant.
- GenICam compliant.
- Trigg/synchronization/GPIO.
- 16-bit 320 × 240 pixel images at 60 Hz, signal, temperature linear, and radiometric.
- Compliant with any software that supports GenICam, including National Instruments IMAQ Vision and Stemmers Common Vision Blox.

#### Typical applications:

- High-end infrared machine vision that needs temperature measurement.
- Slag detection.
- Food processing.
- Electronics testing.
- Power resistor testing.
- Automotive.

### Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	25° × 18.8°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
Spatial resolution (IFOV)	1.36 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	60 Hz
Focus	Automatic or manual (built in motor)

### Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 µm
Detector pitch	25 µm
Detector time constant	Typical 12 ms

**P/N: 61201-1203**

© 2015, FLIR Systems, Inc.  
#61201-1203; r. 24652; en-US

Measurement	
Object temperature range	<ul style="list-style-type: none"> <li>–20 to +120°C (–4 to +248°F)</li> <li>0 to +350°C (+32 to +662°F)</li> </ul>
Accuracy	±4°C (±7.2°F) or ±4% of reading

Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters

Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary and GenICam protocol
Ethernet, image streaming	16-bit 320 × 240 pixels @ 60 Hz - Signal linear - Temperature linear - Radiometric GigE Vision and GenICam compatible
Ethernet, protocols	TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Digital input/output	
Digital input, purpose	Image tag (start, stop, general), Image flow control, (stream on/off), Input ext. device (programmatically read)
Digital input	2 opto-isolated, 10–30 VDC
Digital output, purpose	Output to ext. device (programmatically set)
Digital output	2 opto-isolated, 10–30 VDC, max. 100 mA
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	12/24 VDC, max. 200 mA
Digital I/O, connector type	6-pole jackable screw terminal

Power system	
External power operation	The camera operates on 12/24 VDC, 9 W max. (allowed range: 10-30 VDC) and heaters on 24 VDC, 25 W max. In total: 34 W.
External power, connector type	2-pole jackable screw terminal
Voltage	Allowed range 10–30 VDC

Environmental data	
Operating temperature range	–25°C to +50°C (–13°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)



**P/N: 61201-1203**

© 2015, FLIR Systems, Inc.  
#61201-1203; r. 24652; en-US

Environmental data	
EMC	<ul style="list-style-type: none"> <li>• EN 61000-6-2 (Immunity)</li> <li>• EN 61000-6-3 (Emission)</li> <li>• FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 66 (IEC 60529)
Bump	5 g, 11 ms (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Physical data	
Weight	5 kg (11.0 lb.)
Size (L × W × H)	460 × 140 × 159 mm (18.1 × 5.5 × 6.3 in.)
Base mounting	
Housing material	Aluminum
System features	
External power operation (heater)	24 VDC, 25 W max.
External power, connector type (heater)	2-pole jackable screw terminal
Voltage (heater)	Allowed range 21-30 VDC
Automatic heaters	Clears window from ice
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens and environmental housing</li> <li>• FLIR Sensors Manager download card</li> <li>• FLIR Tools &amp; Utilities CD-ROM</li> <li>• Lens cap</li> <li>• Printed documentation</li> <li>• Small accessories kit</li> <li>• User documentation CD-ROM</li> </ul>
Packaging, weight	
Packaging, size	534 × 207 × 230 mm (21.0 × 8.1 × 9.1 in.)
EAN-13	7332558006153
UPC-12	845188006464
Country of origin	Sweden

**Supplies & accessories:**

- T197000; High temp. option +1200°C/+2192°F for FLIR T/B2xx to T/B4xx and A3xx, A3xxf, A3xxpt, A3xxsc series
- T911182; Power supply for A3xx f, IP66
- T951004ACC; Ethernet cable CAT-6, 2m/6.6 ft.
- 1910586ACC; Power cable, pigtailed
- 324-0004-00; HARD CASE - WITH FOAM, F - SERIES
- 500-0463-00; PEDESTAL MOUNT ASSY - F-SERIES
- 4119507; POLE ADAPTER - F-SERIES
- 500-0462-00; WALL MOUNT ASSY - F-SERIES
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

## P/N: 61201-1204

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 61201-1204  
Commit: 24652  
Language: en-US  
Modified: 2015-04-10 08:49  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The main purpose of the housing on the FLIR A315f is to increase the environmental specification of the standard FLIR A315 to IP66 without affecting any of the features available in the camera itself.

The built-in FLIR A315 camera has features and functions that make it the natural choice for anyone who uses PC software to solve problems and for whom 320 × 240 pixel resolution is sufficient. Among its main features are GigE Vision and GenICam compliance, which makes it plug-and-play when used with software packages such as IMAQ Vision and Halcon.

#### Key features:

- Encapsulation to IP66.
- Affordable.
- GigE compliant.
- GenICam compliant.
- Trigg/synchronization/GPIO.
- 16-bit 320 × 240 pixel images at 60 Hz, signal, temperature linear, and radiometric.
- Compliant with any software that supports GenICam, including National Instruments IMAQ Vision and Stemmers Common Vision Blox.

#### Typical applications:

- High-end infrared machine vision that needs temperature measurement.
- Slag detection.
- Food processing.
- Electronics testing.
- Power resistor testing.
- Automotive.

### Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	45° × 33.8°
Minimum focus distance	0.20 m (0.66 ft.)
Focal length	9.66 mm (0.38 in.)
Spatial resolution (IFOV)	2.45 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	60 Hz
Focus	Automatic or manual (built in motor)

### Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 µm
Detector pitch	25 µm
Detector time constant	Typical 12 ms

**P/N: 61201-1204**

© 2015, FLIR Systems, Inc.  
#61201-1204; r. 24652; en-US

Measurement	
Object temperature range	<ul style="list-style-type: none"> <li>–20 to +120°C (–4 to +248°F)</li> <li>0 to +350°C (+32 to +662°F)</li> </ul>
Accuracy	±4°C (±7.2°F) or ±4% of reading

Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters

Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary and GenICam protocol
Ethernet, image streaming	16-bit 320 × 240 pixels @ 60 Hz - Signal linear - Temperature linear - Radiometric GigE Vision and GenICam compatible
Ethernet, protocols	TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Digital input/output	
Digital input, purpose	Image tag (start, stop, general), Image flow control, (stream on/off), Input ext. device (programmatically read)
Digital input	2 opto-isolated, 10–30 VDC
Digital output, purpose	Output to ext. device (programmatically set)
Digital output	2 opto-isolated, 10–30 VDC, max. 100 mA
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	12/24 VDC, max. 200 mA
Digital I/O, connector type	6-pole jackable screw terminal

Power system	
External power operation	The camera operates on 12/24 VDC, 9 W max. (allowed range: 10-30 VDC) and heaters on 24 VDC, 25 W max. In total: 34 W.
External power, connector type	2-pole jackable screw terminal
Voltage	Allowed range 10–30 VDC

Environmental data	
Operating temperature range	–25°C to +50°C (–13°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)

**P/N: 61201-1204**

© 2015, FLIR Systems, Inc.  
#61201-1204; r. 24652; en-US

Environmental data	
EMC	<ul style="list-style-type: none"> <li>• EN 61000-6-2 (Immunity)</li> <li>• EN 61000-6-3 (Emission)</li> <li>• FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 66 (IEC 60529)
Bump	5 g, 11 ms (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Physical data	
Weight	4.8 kg (10.6 lb.)
Size (L × W × H)	460 × 140 × 159 mm (18.1 × 5.5 × 6.3 in.)
Base mounting	
Housing material	Aluminum
System features	
External power operation (heater)	24 VDC, 25 W max.
External power, connector type (heater)	2-pole jackable screw terminal
Voltage (heater)	Allowed range 21-30 VDC
Automatic heaters	Clears window from ice
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens and environmental housing</li> <li>• FLIR Sensors Manager download card</li> <li>• FLIR Tools &amp; Utilities CD-ROM</li> <li>• Lens cap</li> <li>• Printed documentation</li> <li>• Small accessories kit</li> <li>• User documentation CD-ROM</li> </ul>
Packaging, weight	
Packaging, size	534 × 207 × 230 mm (21.0 × 8.1 × 9.1 in.)
EAN-13	7332558005699
UPC-12	845188005900
Country of origin	Sweden

**Supplies & accessories:**

- T197000; High temp. option +1200°C/+2192°F for FLIR T/B2xx to T/B4xx and A3xx, A3xxf, A3xxpt, A3xxsc series
- T911182; Power supply for A3xx f, IP66
- T951004ACC; Ethernet cable CAT-6, 2m/6.6 ft.
- 1910586ACC; Power cable, pigtailed
- 324-0004-00; HARD CASE - WITH FOAM, F - SERIES
- 500-0463-00; PEDESTAL MOUNT ASSY - F-SERIES
- 4119507; POLE ADAPTER - F-SERIES
- 500-0462-00; WALL MOUNT ASSY - F-SERIES
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

## P/N: 61201-1205

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 61201-1205  
Commit: 24652  
Language: en-US  
Modified: 2015-04-10 08:49  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The main purpose of the housing on the FLIR A315f is to increase the environmental specification of the standard FLIR A315 to IP66 without affecting any of the features available in the camera itself.

The built-in FLIR A315 camera has features and functions that make it the natural choice for anyone who uses PC software to solve problems and for whom 320 × 240 pixel resolution is sufficient. Among its main features are GigE Vision and GenICam compliance, which makes it plug-and-play when used with software packages such as IMAQ Vision and Halcon.

#### Key features:

- Encapsulation to IP66.
- Affordable.
- GigE compliant.
- GenICam compliant.
- Trigg/synchronization/GPIO.
- 16-bit 320 × 240 pixel images at 60 Hz, signal, temperature linear, and radiometric.
- Compliant with any software that supports GenICam, including National Instruments IMAQ Vision and Stemmers Common Vision Blox.

#### Typical applications:

### Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	90° × 73°
Minimum focus distance	20 mm (0.79 in.)
Focal length	4 mm (0.157 in.)
Spatial resolution (IFOV)	6.3 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	60 Hz
Focus	Automatic or manual (built in motor)

### Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm
Detector pitch	25 μm
Detector time constant	Typical 12 ms

### Measurement

Object temperature range	<ul style="list-style-type: none"> <li>• -20 to +120°C (-4 to +248°F)</li> <li>• 0 to +350°C (+32 to +662°F)</li> </ul>
Accuracy	±4°C (±7.2°F) or ±4% of reading

**P/N: 61201-1205**

© 2015, FLIR Systems, Inc.  
#61201-1205; r. 24652; en-US

Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters
Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary and GenICam protocol
Ethernet, image streaming	16-bit 320 × 240 pixels @ 60 Hz - Signal linear - Temperature linear - Radiometric GigE Vision and GenICam compatible
Ethernet, protocols	TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP
Digital input/output	
Digital input, purpose	Image tag (start, stop, general), Image flow control, (stream on/off), Input ext. device (programmatically read)
Digital input	2 opto-isolated, 10–30 VDC
Digital output, purpose	Output to ext. device (programmatically set)
Digital output	2 opto-isolated, 10–30 VDC, max. 100 mA
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	12/24 VDC, max. 200 mA
Digital I/O, connector type	6-pole jackable screw terminal
Power system	
External power operation	The camera operates on 12/24 VDC, 9 W max. (allowed range: 10-30 VDC) and heaters on 24 VDC, 25 W max. In total: 34 W.
External power, connector type	2-pole jackable screw terminal
Voltage	Allowed range 10–30 VDC
Environmental data	
Operating temperature range	–25°C to +50°C (–13°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> <li>EN 61000-6-2 (Immunity)</li> <li>EN 61000-6-3 (Emission)</li> <li>FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 66 (IEC 60529)
Bump	5 g, 11 ms (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

**P/N: 61201-1205**

© 2015, FLIR Systems, Inc.  
#61201-1205; r. 24652; en-US

Physical data	
Weight	5 kg (11.0 lb.)
Size (L × W × H)	460 × 140 × 159 mm (18.1 × 5.5 × 6.3 in.)
Base mounting	
Housing material	Aluminum
System features	
External power operation (heater)	24 VDC, 25 W max.
External power, connector type (heater)	2-pole jackable screw terminal
Voltage (heater)	Allowed range 21-30 VDC
Automatic heaters	Clears window from ice
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens and environmental housing</li> <li>• FLIR Sensors Manager download card</li> <li>• FLIR Tools &amp; Utilities CD-ROM</li> <li>• Lens cap</li> <li>• Printed documentation</li> <li>• Small accessories kit</li> <li>• User documentation CD-ROM</li> </ul>
Packaging, weight	
Packaging, size	534 × 207 × 230 mm (21.0 × 8.1 × 9.1 in.)
EAN-13	7332558005705
UPC-12	845188005917
Country of origin	Sweden

**Supplies & accessories:**

- T197000; High temp. option +1200°C/+2192°F for FLIR T/B2xx to T/B4xx and A3xx, A3xxf, A3xxpt, A3xxsc series
- T911182; Power supply for A3xx f, IP66
- T951004ACC; Ethernet cable CAT-6, 2m/6.6 ft.
- 1910586ACC; Power cable, pigtailed
- 324-0004-00; HARD CASE - WITH FOAM, F - SERIES
- 500-0463-00; PEDESTAL MOUNT ASSY - F-SERIES
- 4119507; POLE ADAPTER - F-SERIES
- 500-0462-00; WALL MOUNT ASSY - F-SERIES
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

# FLIR A3xxpt series

---



## P/N: 60902-1102

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 60902-1102  
Commit: 24652  
Language: en-US  
Modified: 2015-04-10 08:49  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The FLIR A310pt Pan & Tilt is an affordable solution for anyone who needs to solve problems that require built in "smartness" such as analysis and alarm functionality. The FLIR A310pt Pan & Tilt has all the necessary features and functions to build distributed single- or multi-camera solutions to cover large areas to monitor such as in coal pile monitoring and sub-station monitoring using standard Ethernet hardware and software protocols.

The FLIR A310pt precision pan/tilt mechanism gives operators accurate pointing control while providing fully programmable scan patterns, radar slew-to-cue, and slew-to-alarm functionality.

Multi-sensor configurations also include a day/night 36x zoom color CCD camera on the same pan/tilt package.

### Key features:

- Built-in extensive analysis functionality.
- Extensive alarm functionality, as a function of analysis and more.
- H.264, MPEG-4, and MJPEG streaming.
- Built-in web server.
- 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.).
- Composite video output.
- Precise pan/tilt mechanism.
- Daylight camera.
- IP66 rated.
- IP control: FLIR PT series cameras can be integrated into any existing TCP/IP network and controlled using a personal computer.
- Serial control interface, use Pelco D or Bosch commands over RS-232, RS-422, or RS-485 to remotely control the FLIR A310 pt.
- Multi-camera software: FLIR Sensors Manager allows users to manage and control a FLIR PT series camera in a TCP/IP network.

### Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	15° × 11.25°
Minimum focus distance	1.2 m (3.93 ft.)
Focal length	30.38 mm (1.2 in.)
Spatial resolution (IFOV)	0.82 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	9 Hz
Focus	Automatic or manual (built in motor)
Zoom	1–8x continuous, digital, interpolating zooming on images

### Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm

**P/N: 60902-1102**

© 2015, FLIR Systems, Inc.  
#60902-1102; r. 24652; en-US

<b>Detector data</b>	
Detector pitch	25 µm
Detector time constant	Typical 12 ms
<b>Measurement</b>	
Object temperature range	<ul style="list-style-type: none"> <li>• -20 to +120°C (-4 to +248°F)</li> <li>• 0 to +350°C (+32 to +662°F)</li> </ul>
Accuracy	±4°C (±7.2°F) or ±4% of reading
<b>Measurement analysis</b>	
Spotmeter	10
Area	10 boxes with max./min./average/position
Isotherm	1 with above/below/interval
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global and individual object parameters
<b>Alarm</b>	
Alarm functions	6 automatic alarms on any selected measurement function, camera temperature
<b>Set-up</b>	
Color palettes	Color palettes (BW, BW inv, Iron, Rain)
Set-up commands	Date/time, Temperature (°C/°F)
<b>Imaging and optical data (visual camera)</b>	
Field of view (FOV)	57.8° (H) to 1.7° (H)
Focal length	3.4 mm (wide) to 122.4 mm (tele)
F-number	1.6 to 4.5
Focus	Automatic or manual (built in motor)
Optical Zoom	36× continuous
Electronic Zoom	12× continuous, digital, interpolating
<b>Detector data (visual camera)</b>	
Focal plane array (FPA)	1/4" Exview HAD CCD
Effective pixels	380.000
<b>Technical specification (pan &amp; tilt)</b>	
Azimuth Range	Az velocity 360° continuous, 0.1 to 60°/sec max
Elevation Range	El velocity ± 45°, 0.1 to 30°/sec. max
Programmable presets	128
Automatic heaters	Clears window from ice. Switched on at +4°C (39°F). Switched off at +15°C (59°F).
<b>Ethernet</b>	
Ethernet	Control, result and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	

**P/N: 60902-1102**

© 2015, FLIR Systems, Inc.  
#60902-1102; r. 24652; en-US

<b>Ethernet</b>	
Ethernet, video streaming	Two independent channels for each camera - MPEG-4, H.264, or M-JPEG
Ethernet, protocols	Ethernet/IP, Modbus TCP, TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP
<b>Composite video</b>	
Video out	Composite video output, NTSC compatible
Video, standard	CVBS (SMPTE 170M NTSC)
<b>Power system</b>	
Power	24 VAC (21-30 VAC; 24 VAC: 215 VA max. with heater) or 24 VDC (21-30 VDC; 24 VDC: 195 W max. with heater).
<b>Environmental data</b>	
Operating temperature range	-25°C to +50°C (-13°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> <li>EN 61000-6-2 (Immunity)</li> <li>EN 61000-6-3 (Emission)</li> <li>FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 66 (IEC 60529)
Bump	5 g, 11 ms (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
<b>Physical data</b>	
Weight	17.9 kg (39.5 lb.)
Size (L × W × H)	460 × 467 × 326 mm (18.1 × 18.4 × 12.8 in.)
Base mounting	
Housing material	Aluminum
<b>Shipping information</b>	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Pan &amp; tilt with infrared camera including lens and visual camera</li> <li>FLIR Sensors Manager download card</li> <li>Lens cap</li> <li>Printed documentation</li> <li>Small accessories kit</li> <li>User documentation CD-ROM</li> </ul>
Packaging, weight	
Packaging, size	671 × 564 × 464 mm (26.4 × 22.2 × 18.3 in.)
EAN-13	7332558008867
UPC-12	845188009403
Country of origin	Sweden

**Supplies & accessories:**

- T197000; High temp. option +1200°C/+2192°F for FLIR T/B2xx to T/B4xx and A3xx, A3xxf, A3xxpt, A3xxsc series
- 4119468; ADAPTER PLATE - PT-SERIES
- 223-0017-00; JOYSTICK ASSY, NEXUS CONSOLE
- 500-0461-00; PEDESTAL MOUNT ASSY - PT-SERIES
- 500-0509-00; POLE ADAPTER - PT-SERIES
- 4124857; POWER SUPPLY ASSY, 24VAC - PT-series
- 500-0460-00; WALL MOUNT ASSY - PT-SERIES



---

**P/N: 60902-1102**

© 2015, FLIR Systems, Inc.  
#60902-1102; r. 24652; en-US

- 324-0010-00; Hard case - PT-SERIES
- 4130235; FLIR Sensors Manager, pro

## P/N: 60901-1102

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 60901-1102  
Commit: 24652  
Language: en-US  
Modified: 2015-04-10 08:49  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The FLIR A310pt Pan & Tilt is an affordable solution for anyone who needs to solve problems that require built in "smartness" such as analysis and alarm functionality. The FLIR A310pt Pan & Tilt has all the necessary features and functions to build distributed single- or multi-camera solutions to cover large areas to monitor such as in coal pile monitoring and sub-station monitoring using standard Ethernet hardware and software protocols.

The FLIR A310pt precision pan/tilt mechanism gives operators accurate pointing control while providing fully programmable scan patterns, radar slew-to-cue, and slew-to-alarm functionality.

Multi-sensor configurations also include a day/night 36x zoom color CCD camera on the same pan/tilt package.

### Key features:

- Built-in extensive analysis functionality.
- Extensive alarm functionality, as a function of analysis and more.
- H.264, MPEG-4, and MJPEG streaming.
- Built-in web server.
- 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.).
- Composite video output.
- Precise pan/tilt mechanism.
- Daylight camera.
- IP66 rated.
- IP control: FLIR PT series cameras can be integrated into any existing TCP/IP network and controlled using a personal computer.
- Serial control interface, use Pelco D or Bosch commands over RS-232, RS-422, or RS-485 to remotely control the FLIR A310 pt.
- Multi-camera software: FLIR Sensors Manager allows users to manage and control a FLIR PT series camera in a TCP/IP network.

### Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	15° × 11.25°
Minimum focus distance	1.2 m (3.93 ft.)
Focal length	30.38 mm (1.2 in.)
Spatial resolution (IFOV)	0.82 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	9 Hz
Focus	Automatic or manual (built in motor)
Zoom	1–8x continuous, digital, interpolating zooming on images

### Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm

**P/N: 60901-1102**

© 2015, FLIR Systems, Inc.  
#60901-1102; r. 24652; en-US

<b>Detector data</b>	
Detector pitch	25 µm
Detector time constant	Typical 12 ms
<b>Measurement</b>	
Object temperature range	<ul style="list-style-type: none"> <li>• -20 to +120°C (-4 to +248°F)</li> <li>• 0 to +350°C (+32 to +662°F)</li> </ul>
Accuracy	±4°C (±7.2°F) or ±4% of reading
<b>Measurement analysis</b>	
Spotmeter	10
Area	10 boxes with max./min./average/position
Isotherm	1 with above/below/interval
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global and individual object parameters
<b>Alarm</b>	
Alarm functions	6 automatic alarms on any selected measurement function, camera temperature
<b>Set-up</b>	
Color palettes	Color palettes (BW, BW inv, Iron, Rain)
Set-up commands	Date/time, Temperature (°C/°F)
<b>Imaging and optical data (visual camera)</b>	
Field of view (FOV)	57.8° (H) to 1.7° (H)
Focal length	3.4 mm (wide) to 122.4 mm (tele)
F-number	1.6 to 4.5
Focus	Automatic or manual (built in motor)
Optical Zoom	36× continuous
Electronic Zoom	12× continuous, digital, interpolating
<b>Detector data (visual camera)</b>	
Focal plane array (FPA)	1/4" Exview HAD CCD
Effective pixels	380.000
<b>Technical specification (pan &amp; tilt)</b>	
Azimuth Range	Az velocity 360° continuous, 0.1 to 60°/sec max
Elevation Range	El velocity ± 45°, 0.1 to 30°/sec. max
Programmable presets	128
Automatic heaters	Clears window from ice. Switched on at +4°C (39°F). Switched off at +15°C (59°F).
<b>Ethernet</b>	
Ethernet	Control, result and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	

**P/N: 60901-1102**

© 2015, FLIR Systems, Inc.  
#60901-1102; r. 24652; en-US

<b>Ethernet</b>	
Ethernet, video streaming	Two independent channels for each camera - MPEG-4, H.264, or M-JPEG
Ethernet, protocols	Ethernet/IP, Modbus TCP, TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP
<b>Composite video</b>	
Video out	Composite video output, PAL compatible
Video, standard	CVBS (ITU-R-BT.470 PAL)
<b>Power system</b>	
Power	24 VAC (21-30 VAC; 24 VAC: 215 VA max. with heater) or 24 VDC (21-30 VDC; 24 VDC: 195 W max. with heater).
<b>Environmental data</b>	
Operating temperature range	-25°C to +50°C (-13°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> <li>EN 61000-6-2 (Immunity)</li> <li>EN 61000-6-3 (Emission)</li> <li>FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 66 (IEC 60529)
Bump	5 g, 11 ms (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
<b>Physical data</b>	
Weight	17.9 kg (39.5 lb.)
Size (L × W × H)	460 × 467 × 326 mm (18.1 × 18.4 × 12.8 in.)
Base mounting	
Housing material	Aluminum
<b>Shipping information</b>	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Pan &amp; tilt with infrared camera including lens and visual camera</li> <li>FLIR Sensors Manager download card</li> <li>Lens cap</li> <li>Printed documentation</li> <li>Small accessories kit</li> <li>User documentation CD-ROM</li> </ul>
Packaging, weight	
Packaging, size	671 × 564 × 464 mm (26.4 × 22.2 × 18.3 in.)
EAN-13	7332558008874
UPC-12	845188009410
Country of origin	Sweden

**Supplies & accessories:**

- T197000; High temp. option +1200°C/+2192°F for FLIR T/B2xx to T/B4xx and A3xx, A3xxf, A3xxpt, A3xxsc series
- 4119468; ADAPTER PLATE - PT-SERIES
- 223-0017-00; JOYSTICK ASSY, NEXUS CONSOLE
- 500-0461-00; PEDESTAL MOUNT ASSY - PT-SERIES
- 500-0509-00; POLE ADAPTER - PT-SERIES
- 4124857; POWER SUPPLY ASSY, 24VAC - PT-series
- 500-0460-00; WALL MOUNT ASSY - PT-SERIES



---

**P/N: 60901-1102**

© 2015, FLIR Systems, Inc.  
#60901-1102; r. 24652; en-US

- 324-0010-00; Hard case - PT-SERIES
- 4130235; FLIR Sensors Manager, pro



## P/N: 61002-1102

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 61002-1102  
Commit: 24652  
Language: en-US  
Modified: 2015-04-10 08:49  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The FLIR A310pt Pan & Tilt is an affordable solution for anyone who needs to solve problems that require built in "smartness" such as analysis and alarm functionality. The FLIR A310pt Pan & Tilt has all the necessary features and functions to build distributed single- or multi-camera solutions to cover large areas to monitor such as in coal pile monitoring and sub-station monitoring using standard Ethernet hardware and software protocols.

The FLIR A310pt precision pan/tilt mechanism gives operators accurate pointing control while providing fully programmable scan patterns, radar slew-to-cue, and slew-to-alarm functionality.

Multi-sensor configurations also include a day/night 36x zoom color CCD camera on the same pan/tilt package.

### Key features:

- Built-in extensive analysis functionality.
- Extensive alarm functionality, as a function of analysis and more.
- H.264, MPEG-4, and MJPEG streaming.
- Built-in web server.
- 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.).
- Composite video output.
- Precise pan/tilt mechanism.
- Daylight camera.
- IP66 rated.
- IP control: FLIR PT series cameras can be integrated into any existing TCP/IP network and controlled using a personal computer.
- Serial control interface, use Pelco D or Bosch commands over RS-232, RS-422, or RS-485 to remotely control the FLIR A310 pt.
- Multi-camera software: FLIR Sensors Manager allows users to manage and control a FLIR PT series camera in a TCP/IP network.

### Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	15° × 11.25°
Minimum focus distance	1.2 m (3.93 ft.)
Focal length	30.38 mm (1.2 in.)
Spatial resolution (IFOV)	0.82 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	30 Hz
Focus	Automatic or manual (built in motor)
Zoom	1–8x continuous, digital, interpolating zooming on images

### Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm

**P/N: 61002-1102**

© 2015, FLIR Systems, Inc.  
#61002-1102; r. 24652; en-US

<b>Detector data</b>	
Detector pitch	25 µm
Detector time constant	Typical 12 ms
<b>Measurement</b>	
Object temperature range	<ul style="list-style-type: none"> <li>• -20 to +120°C (-4 to +248°F)</li> <li>• 0 to +350°C (+32 to +662°F)</li> </ul>
Accuracy	±4°C (±7.2°F) or ±4% of reading
<b>Measurement analysis</b>	
Spotmeter	10
Area	10 boxes with max./min./average/position
Isotherm	1 with above/below/interval
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global and individual object parameters
<b>Alarm</b>	
Alarm functions	6 automatic alarms on any selected measurement function, camera temperature
<b>Set-up</b>	
Color palettes	Color palettes (BW, BW inv, Iron, Rain)
Set-up commands	Date/time, Temperature (°C/°F)
<b>Imaging and optical data (visual camera)</b>	
Field of view (FOV)	57.8° (H) to 1.7° (H)
Focal length	3.4 mm (wide) to 122.4 mm (tele)
F-number	1.6 to 4.5
Focus	Automatic or manual (built in motor)
Optical Zoom	36× continuous
Electronic Zoom	12× continuous, digital, interpolating
<b>Detector data (visual camera)</b>	
Focal plane array (FPA)	1/4" Exview HAD CCD
Effective pixels	380.000
<b>Technical specification (pan &amp; tilt)</b>	
Azimuth Range	Az velocity 360° continuous, 0.1 to 60°/sec max
Elevation Range	El velocity ± 45°, 0.1 to 30°/sec. max
Programmable presets	128
Automatic heaters	Clears window from ice. Switched on at +4°C (39°F). Switched off at +15°C (59°F).
<b>Ethernet</b>	
Ethernet	Control, result and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	

**P/N: 61002-1102**

© 2015, FLIR Systems, Inc.  
#61002-1102; r. 24652; en-US

<b>Ethernet</b>	
Ethernet, video streaming	Two independent channels for each camera - MPEG-4, H.264, or M-JPEG
Ethernet, protocols	Ethernet/IP, Modbus TCP, TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP
<b>Composite video</b>	
Video out	Composite video output, NTSC compatible
Video, standard	CVBS (SMPTE 170M NTSC)
<b>Power system</b>	
Power	24 VAC (21-30 VAC; 24 VAC: 215 VA max. with heater) or 24 VDC (21-30 VDC; 24 VDC: 195 W max. with heater).
<b>Environmental data</b>	
Operating temperature range	-25°C to +50°C (-13°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> <li>EN 61000-6-2 (Immunity)</li> <li>EN 61000-6-3 (Emission)</li> <li>FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 66 (IEC 60529)
Bump	5 g, 11 ms (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
<b>Physical data</b>	
Weight	17.9 kg (39.5 lb.)
Size (L × W × H)	460 × 467 × 326 mm (18.1 × 18.4 × 12.8 in.)
Base mounting	
Housing material	Aluminum
<b>Shipping information</b>	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Pan &amp; tilt with infrared camera including lens and visual camera</li> <li>FLIR Sensors Manager download card</li> <li>Lens cap</li> <li>Printed documentation</li> <li>Small accessories kit</li> <li>User documentation CD-ROM</li> </ul>
Packaging, weight	
Packaging, size	671 × 564 × 464 mm (26.4 × 22.2 × 18.3 in.)
EAN-13	7332558004784
UPC-12	845188004729
Country of origin	Sweden

**Supplies & accessories:**

- T197000; High temp. option +1200°C/+2192°F for FLIR T/B2xx to T/B4xx and A3xx, A3xxf, A3xxpt, A3xxsc series
- 4119468; ADAPTER PLATE - PT-SERIES
- 223-0017-00; JOYSTICK ASSY, NEXUS CONSOLE
- 500-0461-00; PEDESTAL MOUNT ASSY - PT-SERIES
- 500-0509-00; POLE ADAPTER - PT-SERIES
- 4124857; POWER SUPPLY ASSY, 24VAC - PT-series
- 500-0460-00; WALL MOUNT ASSY - PT-SERIES



---

**P/N: 61002-1102**

© 2015, FLIR Systems, Inc.  
#61002-1102; r. 24652; en-US

- 324-0010-00; Hard case - PT-SERIES
- 4130235; FLIR Sensors Manager, pro

## P/N: 61001-1102

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 61001-1102  
Commit: 24652  
Language: en-US  
Modified: 2015-04-10 08:49  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The FLIR A310pt Pan & Tilt is an affordable solution for anyone who needs to solve problems that require built in "smartness" such as analysis and alarm functionality. The FLIR A310pt Pan & Tilt has all the necessary features and functions to build distributed single- or multi-camera solutions to cover large areas to monitor such as in coal pile monitoring and sub-station monitoring using standard Ethernet hardware and software protocols.

The FLIR A310pt precision pan/tilt mechanism gives operators accurate pointing control while providing fully programmable scan patterns, radar slew-to-cue, and slew-to-alarm functionality.

Multi-sensor configurations also include a day/night 36x zoom color CCD camera on the same pan/tilt package.

### Key features:

- Built-in extensive analysis functionality.
- Extensive alarm functionality, as a function of analysis and more.
- H.264, MPEG-4, and MJPEG streaming.
- Built-in web server.
- 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.).
- Composite video output.
- Precise pan/tilt mechanism.
- Daylight camera.
- IP66 rated.
- IP control: FLIR PT series cameras can be integrated into any existing TCP/IP network and controlled using a personal computer.
- Serial control interface, use Pelco D or Bosch commands over RS-232, RS-422, or RS-485 to remotely control the FLIR A310 pt.
- Multi-camera software: FLIR Sensors Manager allows users to manage and control a FLIR PT series camera in a TCP/IP network.

### Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	15° × 11.25°
Minimum focus distance	1.2 m (3.93 ft.)
Focal length	30.38 mm (1.2 in.)
Spatial resolution (IFOV)	0.82 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	30 Hz
Focus	Automatic or manual (built in motor)
Zoom	1–8x continuous, digital, interpolating zooming on images

### Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm

P/N: 61001-1102

© 2015, FLIR Systems, Inc.  
#61001-1102; r. 24652; en-US

<b>Detector data</b>	
Detector pitch	25 µm
Detector time constant	Typical 12 ms
<b>Measurement</b>	
Object temperature range	<ul style="list-style-type: none"> <li>• -20 to +120°C (-4 to +248°F)</li> <li>• 0 to +350°C (+32 to +662°F)</li> </ul>
Accuracy	±4°C (±7.2°F) or ±4% of reading
<b>Measurement analysis</b>	
Spotmeter	10
Area	10 boxes with max./min./average/position
Isotherm	1 with above/below/interval
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global and individual object parameters
<b>Alarm</b>	
Alarm functions	6 automatic alarms on any selected measurement function, camera temperature
<b>Set-up</b>	
Color palettes	Color palettes (BW, BW inv, Iron, Rain)
Set-up commands	Date/time, Temperature (°C/°F)
<b>Imaging and optical data (visual camera)</b>	
Field of view (FOV)	57.8° (H) to 1.7° (H)
Focal length	3.4 mm (wide) to 122.4 mm (tele)
F-number	1.6 to 4.5
Focus	Automatic or manual (built in motor)
Optical Zoom	36× continuous
Electronic Zoom	12× continuous, digital, interpolating
<b>Detector data (visual camera)</b>	
Focal plane array (FPA)	1/4" Exview HAD CCD
Effective pixels	380.000
<b>Technical specification (pan &amp; tilt)</b>	
Azimuth Range	Az velocity 360° continuous, 0.1 to 60°/sec max
Elevation Range	El velocity ± 45°, 0.1 to 30°/sec. max
Programmable presets	128
Automatic heaters	Clears window from ice. Switched on at +4°C (39°F). Switched off at +15°C (59°F).
<b>Ethernet</b>	
Ethernet	Control, result and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	

**P/N: 61001-1102**

© 2015, FLIR Systems, Inc.  
#61001-1102; r. 24652; en-US

Ethernet	
Ethernet, video streaming	Two independent channels for each camera - MPEG-4, H.264, or M-JPEG
Ethernet, protocols	Ethernet/IP, Modbus TCP, TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP
Composite video	
Video out	Composite video output, PAL compatible
Video, standard	CVBS (ITU-R-BT.470 PAL)
Power system	
Power	24 VAC (21-30 VAC; 24 VAC: 215 VA max. with heater) or 24 VDC (21-30 VDC; 24 VDC: 195 W max. with heater).
Environmental data	
Operating temperature range	-25°C to +50°C (-13°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> <li>EN 61000-6-2 (Immunity)</li> <li>EN 61000-6-3 (Emission)</li> <li>FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 66 (IEC 60529)
Bump	5 g, 11 ms (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Physical data	
Weight	17.9 kg (39.5 lb.)
Size (L × W × H)	460 × 467 × 326 mm (18.1 × 18.4 × 12.8 in.)
Base mounting	
Housing material	Aluminum
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Pan &amp; tilt with infrared camera including lens and visual camera</li> <li>FLIR Sensors Manager download card</li> <li>Lens cap</li> <li>Printed documentation</li> <li>Small accessories kit</li> <li>User documentation CD-ROM</li> </ul>
Packaging, weight	
Packaging, size	671 × 564 × 464 mm (26.4 × 22.2 × 18.3 in.)
EAN-13	7332558008881
UPC-12	845188009427
Country of origin	Sweden

**Supplies & accessories:**

- T197000; High temp. option +1200°C/+2192°F for FLIR T/B2xx to T/B4xx and A3xx, A3xxf, A3xxpt, A3xxsc series
- 4119468; ADAPTER PLATE - PT-SERIES
- 223-0017-00; JOYSTICK ASSY, NEXUS CONSOLE
- 500-0461-00; PEDESTAL MOUNT ASSY - PT-SERIES
- 500-0509-00; POLE ADAPTER - PT-SERIES
- 4124857; POWER SUPPLY ASSY, 24VAC - PT-series
- 500-0460-00; WALL MOUNT ASSY - PT-SERIES



---

**P/N: 61001-1102**

© 2015, FLIR Systems, Inc.  
#61001-1102; r. 24652; en-US

- 324-0010-00; Hard case - PT-SERIES
- 4130235; FLIR Sensors Manager, pro



## P/N: 60902-1103

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 60902-1103  
Commit: 24652  
Language: en-US  
Modified: 2015-04-10 08:49  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The FLIR A310pt Pan & Tilt is an affordable solution for anyone who needs to solve problems that require built in "smartness" such as analysis and alarm functionality. The FLIR A310pt Pan & Tilt has all the necessary features and functions to build distributed single- or multi-camera solutions to cover large areas to monitor such as in coal pile monitoring and sub-station monitoring using standard Ethernet hardware and software protocols.

The FLIR A310pt precision pan/tilt mechanism gives operators accurate pointing control while providing fully programmable scan patterns, radar slew-to-cue, and slew-to-alarm functionality.

Multi-sensor configurations also include a day/night 36x zoom color CCD camera on the same pan/tilt package.

### Key features:

- Built-in extensive analysis functionality.
- Extensive alarm functionality, as a function of analysis and more.
- H.264, MPEG-4, and MJPEG streaming.
- Built-in web server.
- 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.).
- Composite video output.
- Precise pan/tilt mechanism.
- Daylight camera.
- IP66 rated.
- IP control: FLIR PT series cameras can be integrated into any existing TCP/IP network and controlled using a personal computer.
- Serial control interface, use Pelco D or Bosch commands over RS-232, RS-422, or RS-485 to remotely control the FLIR A310 pt.
- Multi-camera software: FLIR Sensors Manager allows users to manage and control a FLIR PT series camera in a TCP/IP network.

### Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	25° × 18.8°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
Spatial resolution (IFOV)	1.36 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	9 Hz
Focus	Automatic or manual (built in motor)
Zoom	1–8x continuous, digital, interpolating zooming on images

### Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm

**P/N: 60902-1103**

© 2015, FLIR Systems, Inc.  
#60902-1103; r. 24652; en-US

<b>Detector data</b>	
Detector pitch	25 µm
Detector time constant	Typical 12 ms
<b>Measurement</b>	
Object temperature range	<ul style="list-style-type: none"> <li>• -20 to +120°C (-4 to +248°F)</li> <li>• 0 to +350°C (+32 to +662°F)</li> </ul>
Accuracy	±4°C (±7.2°F) or ±4% of reading
<b>Measurement analysis</b>	
Spotmeter	10
Area	10 boxes with max./min./average/position
Isotherm	1 with above/below/interval
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global and individual object parameters
<b>Alarm</b>	
Alarm functions	6 automatic alarms on any selected measurement function, camera temperature
<b>Set-up</b>	
Color palettes	Color palettes (BW, BW inv, Iron, Rain)
Set-up commands	Date/time, Temperature (°C/°F)
<b>Imaging and optical data (visual camera)</b>	
Field of view (FOV)	57.8° (H) to 1.7° (H)
Focal length	3.4 mm (wide) to 122.4 mm (tele)
F-number	1.6 to 4.5
Focus	Automatic or manual (built in motor)
Optical Zoom	36× continuous
Electronic Zoom	12× continuous, digital, interpolating
<b>Detector data (visual camera)</b>	
Focal plane array (FPA)	1/4" Exview HAD CCD
Effective pixels	380.000
<b>Technical specification (pan &amp; tilt)</b>	
Azimuth Range	Az velocity 360° continuous, 0.1 to 60°/sec max
Elevation Range	El velocity ± 45°, 0.1 to 30°/sec. max
Programmable presets	128
Automatic heaters	Clears window from ice. Switched on at +4°C (39°F). Switched off at +15°C (59°F).
<b>Ethernet</b>	
Ethernet	Control, result and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	

**P/N: 60902-1103**

© 2015, FLIR Systems, Inc.  
#60902-1103; r. 24652; en-US

<b>Ethernet</b>	
Ethernet, video streaming	Two independent channels for each camera - MPEG-4, H.264, or M-JPEG
Ethernet, protocols	Ethernet/IP, Modbus TCP, TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP
<b>Composite video</b>	
Video out	Composite video output, NTSC compatible
Video, standard	CVBS (SMPTE 170M NTSC)
<b>Power system</b>	
Power	24 VAC (21-30 VAC; 24 VAC: 215 VA max. with heater) or 24 VDC (21-30 VDC; 24 VDC: 195 W max. with heater).
<b>Environmental data</b>	
Operating temperature range	-25°C to +50°C (-13°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> <li>EN 61000-6-2 (Immunity)</li> <li>EN 61000-6-3 (Emission)</li> <li>FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 66 (IEC 60529)
Bump	5 g, 11 ms (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
<b>Physical data</b>	
Weight	17.8 kg (39.3 lb.)
Size (L × W × H)	460 × 467 × 326 mm (18.1 × 18.4 × 12.8 in.)
Base mounting	
Housing material	Aluminum
<b>Shipping information</b>	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Pan &amp; tilt with infrared camera including lens and visual camera</li> <li>FLIR Sensors Manager download card</li> <li>Lens cap</li> <li>Printed documentation</li> <li>Small accessories kit</li> <li>User documentation CD-ROM</li> </ul>
Packaging, weight	
Packaging, size	671 × 564 × 464 mm (26.4 × 22.2 × 18.3 in.)
EAN-13	7332558008898
UPC-12	845188009434
Country of origin	Sweden

**Supplies & accessories:**

- T197000; High temp. option +1200°C/+2192°F for FLIR T/B2xx to T/B4xx and A3xx, A3xxf, A3xxpt, A3xxsc series
- 4119468; ADAPTER PLATE - PT-SERIES
- 223-0017-00; JOYSTICK ASSY, NEXUS CONSOLE
- 500-0461-00; PEDESTAL MOUNT ASSY - PT-SERIES
- 500-0509-00; POLE ADAPTER - PT-SERIES
- 4124857; POWER SUPPLY ASSY, 24VAC - PT-series
- 500-0460-00; WALL MOUNT ASSY - PT-SERIES



---

**P/N: 60902-1103**

© 2015, FLIR Systems, Inc.  
#60902-1103; r. 24652; en-US

- 324-0010-00; Hard case - PT-SERIES
- 4130235; FLIR Sensors Manager, pro

## P/N: 60901-1103

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 60901-1103  
Commit: 24652  
Language: en-US  
Modified: 2015-04-10 08:49  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The FLIR A310pt Pan & Tilt is an affordable solution for anyone who needs to solve problems that require built in "smartness" such as analysis and alarm functionality. The FLIR A310pt Pan & Tilt has all the necessary features and functions to build distributed single- or multi-camera solutions to cover large areas to monitor such as in coal pile monitoring and sub-station monitoring using standard Ethernet hardware and software protocols.

The FLIR A310pt precision pan/tilt mechanism gives operators accurate pointing control while providing fully programmable scan patterns, radar slew-to-cue, and slew-to-alarm functionality.

Multi-sensor configurations also include a day/night 36x zoom color CCD camera on the same pan/tilt package.

### Key features:

- Built-in extensive analysis functionality.
- Extensive alarm functionality, as a function of analysis and more.
- H.264, MPEG-4, and MJPEG streaming.
- Built-in web server.
- 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.).
- Composite video output.
- Precise pan/tilt mechanism.
- Daylight camera.
- IP66 rated.
- IP control: FLIR PT series cameras can be integrated into any existing TCP/IP network and controlled using a personal computer.
- Serial control interface, use Pelco D or Bosch commands over RS-232, RS-422, or RS-485 to remotely control the FLIR A310 pt.
- Multi-camera software: FLIR Sensors Manager allows users to manage and control a FLIR PT series camera in a TCP/IP network.

### Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	25° × 18.8°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
Spatial resolution (IFOV)	1.36 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	9 Hz
Focus	Automatic or manual (built in motor)
Zoom	1–8x continuous, digital, interpolating zooming on images

### Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm

**P/N: 60901-1103**

© 2015, FLIR Systems, Inc.  
#60901-1103; r. 24652; en-US

<b>Detector data</b>	
Detector pitch	25 µm
Detector time constant	Typical 12 ms
<b>Measurement</b>	
Object temperature range	<ul style="list-style-type: none"> <li>• -20 to +120°C (-4 to +248°F)</li> <li>• 0 to +350°C (+32 to +662°F)</li> </ul>
Accuracy	±4°C (±7.2°F) or ±4% of reading
<b>Measurement analysis</b>	
Spotmeter	10
Area	10 boxes with max./min./average/position
Isotherm	1 with above/below/interval
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global and individual object parameters
<b>Alarm</b>	
Alarm functions	6 automatic alarms on any selected measurement function, camera temperature
<b>Set-up</b>	
Color palettes	Color palettes (BW, BW inv, Iron, Rain)
Set-up commands	Date/time, Temperature (°C/°F)
<b>Imaging and optical data (visual camera)</b>	
Field of view (FOV)	57.8° (H) to 1.7° (H)
Focal length	3.4 mm (wide) to 122.4 mm (tele)
F-number	1.6 to 4.5
Focus	Automatic or manual (built in motor)
Optical Zoom	36× continuous
Electronic Zoom	12× continuous, digital, interpolating
<b>Detector data (visual camera)</b>	
Focal plane array (FPA)	1/4" Exview HAD CCD
Effective pixels	380.000
<b>Technical specification (pan &amp; tilt)</b>	
Azimuth Range	Az velocity 360° continuous, 0.1 to 60°/sec max
Elevation Range	El velocity ± 45°, 0.1 to 30°/sec. max
Programmable presets	128
Automatic heaters	Clears window from ice. Switched on at +4°C (39°F). Switched off at +15°C (59°F).
<b>Ethernet</b>	
Ethernet	Control, result and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	

**P/N: 60901-1103**

 © 2015, FLIR Systems, Inc.  
 #60901-1103; r. 24652; en-US

<b>Ethernet</b>	
Ethernet, video streaming	Two independent channels for each camera - MPEG-4, H.264, or M-JPEG
Ethernet, protocols	Ethernet/IP, Modbus TCP, TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP
<b>Composite video</b>	
Video out	Composite video output, PAL compatible
Video, standard	CVBS (ITU-R-BT.470 PAL)
<b>Power system</b>	
Power	24 VAC (21-30 VAC; 24 VAC: 215 VA max. with heater) or 24 VDC (21-30 VDC; 24 VDC: 195 W max. with heater).
<b>Environmental data</b>	
Operating temperature range	-25°C to +50°C (-13°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> <li>• EN 61000-6-2 (Immunity)</li> <li>• EN 61000-6-3 (Emission)</li> <li>• FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 66 (IEC 60529)
Bump	5 g, 11 ms (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
<b>Physical data</b>	
Weight	17.8 kg (39.3 lb.)
Size (L × W × H)	460 × 467 × 326 mm (18.1 × 18.4 × 12.8 in.)
Base mounting	
Housing material	Aluminum
<b>Shipping information</b>	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Pan &amp; tilt with infrared camera including lens and visual camera</li> <li>• FLIR Sensors Manager download card</li> <li>• Lens cap</li> <li>• Printed documentation</li> <li>• Small accessories kit</li> <li>• User documentation CD-ROM</li> </ul>
Packaging, weight	
Packaging, size	671 × 564 × 464 mm (26.4 × 22.2 × 18.3 in.)
EAN-13	7332558007891
UPC-12	845188008260
Country of origin	Sweden

**Supplies & accessories:**

- T197000; High temp. option +1200°C/+2192°F for FLIR T/B2xx to T/B4xx and A3xx, A3xxf, A3xxpt, A3xxsc series
- 4119468; ADAPTER PLATE - PT-SERIES
- 223-0017-00; JOYSTICK ASSY, NEXUS CONSOLE
- 500-0461-00; PEDESTAL MOUNT ASSY - PT-SERIES
- 500-0509-00; POLE ADAPTER - PT-SERIES
- 4124857; POWER SUPPLY ASSY, 24VAC - PT-series
- 500-0460-00; WALL MOUNT ASSY - PT-SERIES



---

**P/N: 60901-1103**

© 2015, FLIR Systems, Inc.  
#60901-1103; r. 24652; en-US

- 324-0010-00; Hard case - PT-SERIES
- 4130235; FLIR Sensors Manager, pro



## P/N: 61002-1103

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 61002-1103  
Commit: 24652  
Language: en-US  
Modified: 2015-04-10 08:49  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The FLIR A310pt Pan & Tilt is an affordable solution for anyone who needs to solve problems that require built in "smartness" such as analysis and alarm functionality. The FLIR A310pt Pan & Tilt has all the necessary features and functions to build distributed single- or multi-camera solutions to cover large areas to monitor such as in coal pile monitoring and sub-station monitoring using standard Ethernet hardware and software protocols.

The FLIR A310pt precision pan/tilt mechanism gives operators accurate pointing control while providing fully programmable scan patterns, radar slew-to-cue, and slew-to-alarm functionality.

Multi-sensor configurations also include a day/night 36x zoom color CCD camera on the same pan/tilt package.

### Key features:

- Built-in extensive analysis functionality.
- Extensive alarm functionality, as a function of analysis and more.
- H.264, MPEG-4, and MJPEG streaming.
- Built-in web server.
- 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.).
- Composite video output.
- Precise pan/tilt mechanism.
- Daylight camera.
- IP66 rated.
- IP control: FLIR PT series cameras can be integrated into any existing TCP/IP network and controlled using a personal computer.
- Serial control interface, use Pelco D or Bosch commands over RS-232, RS-422, or RS-485 to remotely control the FLIR A310 pt.
- Multi-camera software: FLIR Sensors Manager allows users to manage and control a FLIR PT series camera in a TCP/IP network.

### Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	25° × 18.8°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
Spatial resolution (IFOV)	1.36 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	30 Hz
Focus	Automatic or manual (built in motor)
Zoom	1–8× continuous, digital, interpolating zooming on images

### Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm

P/N: 61002-1103

© 2015, FLIR Systems, Inc.  
#61002-1103; r. 24652; en-US

<b>Detector data</b>	
Detector pitch	25 µm
Detector time constant	Typical 12 ms
<b>Measurement</b>	
Object temperature range	<ul style="list-style-type: none"> <li>• -20 to +120°C (-4 to +248°F)</li> <li>• 0 to +350°C (+32 to +662°F)</li> </ul>
Accuracy	±4°C (±7.2°F) or ±4% of reading
<b>Measurement analysis</b>	
Spotmeter	10
Area	10 boxes with max./min./average/position
Isotherm	1 with above/below/interval
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global and individual object parameters
<b>Alarm</b>	
Alarm functions	6 automatic alarms on any selected measurement function, camera temperature
<b>Set-up</b>	
Color palettes	Color palettes (BW, BW inv, Iron, Rain)
Set-up commands	Date/time, Temperature (°C/°F)
<b>Imaging and optical data (visual camera)</b>	
Field of view (FOV)	57.8° (H) to 1.7° (H)
Focal length	3.4 mm (wide) to 122.4 mm (tele)
F-number	1.6 to 4.5
Focus	Automatic or manual (built in motor)
Optical Zoom	36× continuous
Electronic Zoom	12× continuous, digital, interpolating
<b>Detector data (visual camera)</b>	
Focal plane array (FPA)	1/4" Exview HAD CCD
Effective pixels	380.000
<b>Technical specification (pan &amp; tilt)</b>	
Azimuth Range	Az velocity 360° continuous, 0.1 to 60°/sec max
Elevation Range	El velocity +/- 45°, 0.1 to 30°/sec. max
Programmable presets	128
Automatic heaters	Clears window from ice. Switched on at +4°C (39°F). Switched off at +15°C (59°F).
<b>Ethernet</b>	
Ethernet	Control, result and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	

**P/N: 61002-1103**

© 2015, FLIR Systems, Inc.  
#61002-1103; r. 24652; en-US

<b>Ethernet</b>	
Ethernet, video streaming	Two independent channels for each camera - MPEG-4, H.264, or M-JPEG
Ethernet, protocols	Ethernet/IP, Modbus TCP, TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP
<b>Composite video</b>	
Video out	Composite video output, NTSC compatible
Video, standard	CVBS (SMPTE 170M NTSC)
<b>Power system</b>	
Power	24 VAC (21-30 VAC; 24 VAC: 215 VA max. with heater) or 24 VDC (21-30 VDC; 24 VDC: 195 W max. with heater).
<b>Environmental data</b>	
Operating temperature range	-25°C to +50°C (-13°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> <li>EN 61000-6-2 (Immunity)</li> <li>EN 61000-6-3 (Emission)</li> <li>FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 66 (IEC 60529)
Bump	5 g, 11 ms (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
<b>Physical data</b>	
Weight	17.8 kg (39.3 lb.)
Size (L × W × H)	460 × 467 × 326 mm (18.1 × 18.4 × 12.8 in.)
Base mounting	
Housing material	Aluminum
<b>Shipping information</b>	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Pan &amp; tilt with infrared camera including lens and visual camera</li> <li>FLIR Sensors Manager download card</li> <li>Lens cap</li> <li>Printed documentation</li> <li>Small accessories kit</li> <li>User documentation CD-ROM</li> </ul>
Packaging, weight	
Packaging, size	671 × 564 × 464 mm (26.4 × 22.2 × 18.3 in.)
EAN-13	7332558005910
UPC-12	845188006105
Country of origin	Sweden

**Supplies & accessories:**

- T197000; High temp. option +1200°C/+2192°F for FLIR T/B2xx to T/B4xx and A3xx, A3xxf, A3xxpt, A3xxsc series
- 4119468; ADAPTER PLATE - PT-SERIES
- 223-0017-00; JOYSTICK ASSY, NEXUS CONSOLE
- 500-0461-00; PEDESTAL MOUNT ASSY - PT-SERIES
- 500-0509-00; POLE ADAPTER - PT-SERIES
- 4124857; POWER SUPPLY ASSY, 24VAC - PT-series
- 500-0460-00; WALL MOUNT ASSY - PT-SERIES



---

**P/N: 61002-1103**

© 2015, FLIR Systems, Inc.  
#61002-1103; r. 24652; en-US

- 324-0010-00; Hard case - PT-SERIES
- 4130235; FLIR Sensors Manager, pro

## P/N: 61001-1103

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 61001-1103  
Commit: 24652  
Language: en-US  
Modified: 2015-04-10 08:49  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The FLIR A310pt Pan & Tilt is an affordable solution for anyone who needs to solve problems that require built in "smartness" such as analysis and alarm functionality. The FLIR A310pt Pan & Tilt has all the necessary features and functions to build distributed single- or multi-camera solutions to cover large areas to monitor such as in coal pile monitoring and sub-station monitoring using standard Ethernet hardware and software protocols.

The FLIR A310pt precision pan/tilt mechanism gives operators accurate pointing control while providing fully programmable scan patterns, radar slew-to-cue, and slew-to-alarm functionality.

Multi-sensor configurations also include a day/night 36x zoom color CCD camera on the same pan/tilt package.

### Key features:

- Built-in extensive analysis functionality.
- Extensive alarm functionality, as a function of analysis and more.
- H.264, MPEG-4, and MJPEG streaming.
- Built-in web server.
- 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.).
- Composite video output.
- Precise pan/tilt mechanism.
- Daylight camera.
- IP66 rated.
- IP control: FLIR PT series cameras can be integrated into any existing TCP/IP network and controlled using a personal computer.
- Serial control interface, use Pelco D or Bosch commands over RS-232, RS-422, or RS-485 to remotely control the FLIR A310 pt.
- Multi-camera software: FLIR Sensors Manager allows users to manage and control a FLIR PT series camera in a TCP/IP network.

### Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	25° × 18.8°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
Spatial resolution (IFOV)	1.36 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	30 Hz
Focus	Automatic or manual (built in motor)
Zoom	1–8× continuous, digital, interpolating zooming on images

### Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm

**P/N: 61001-1103**

© 2015, FLIR Systems, Inc.  
#61001-1103; r. 24652; en-US

<b>Detector data</b>	
Detector pitch	25 µm
Detector time constant	Typical 12 ms
<b>Measurement</b>	
Object temperature range	<ul style="list-style-type: none"> <li>• -20 to +120°C (-4 to +248°F)</li> <li>• 0 to +350°C (+32 to +662°F)</li> </ul>
Accuracy	±4°C (±7.2°F) or ±4% of reading
<b>Measurement analysis</b>	
Spotmeter	10
Area	10 boxes with max./min./average/position
Isotherm	1 with above/below/interval
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global and individual object parameters
<b>Alarm</b>	
Alarm functions	6 automatic alarms on any selected measurement function, camera temperature
<b>Set-up</b>	
Color palettes	Color palettes (BW, BW inv, Iron, Rain)
Set-up commands	Date/time, Temperature (°C/°F)
<b>Imaging and optical data (visual camera)</b>	
Field of view (FOV)	57.8° (H) to 1.7° (H)
Focal length	3.4 mm (wide) to 122.4 mm (tele)
F-number	1.6 to 4.5
Focus	Automatic or manual (built in motor)
Optical Zoom	36× continuous
Electronic Zoom	12× continuous, digital, interpolating
<b>Detector data (visual camera)</b>	
Focal plane array (FPA)	1/4" Exview HAD CCD
Effective pixels	380.000
<b>Technical specification (pan &amp; tilt)</b>	
Azimuth Range	Az velocity 360° continuous, 0.1 to 60°/sec max
Elevation Range	El velocity ± 45°, 0.1 to 30°/sec. max
Programmable presets	128
Automatic heaters	Clears window from ice. Switched on at +4°C (39°F). Switched off at +15°C (59°F).
<b>Ethernet</b>	
Ethernet	Control, result and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	

**P/N: 61001-1103**

© 2015, FLIR Systems, Inc.  
#61001-1103; r. 24652; en-US

Ethernet	
Ethernet, video streaming	Two independent channels for each camera - MPEG-4, H.264, or M-JPEG
Ethernet, protocols	Ethernet/IP, Modbus TCP, TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP
Composite video	
Video out	Composite video output, PAL compatible
Video, standard	CVBS (ITU-R-BT.470 PAL)
Power system	
Power	24 VAC (21-30 VAC; 24 VAC: 215 VA max. with heater) or 24 VDC (21-30 VDC; 24 VDC: 195 W max. with heater).
Environmental data	
Operating temperature range	-25°C to +50°C (-13°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> <li>EN 61000-6-2 (Immunity)</li> <li>EN 61000-6-3 (Emission)</li> <li>FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 66 (IEC 60529)
Bump	5 g, 11 ms (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Physical data	
Weight	17.8 kg (39.3 lb.)
Size (L × W × H)	460 × 467 × 326 mm (18.1 × 18.4 × 12.8 in.)
Base mounting	
Housing material	Aluminum
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Pan &amp; tilt with infrared camera including lens and visual camera</li> <li>FLIR Sensors Manager download card</li> <li>Lens cap</li> <li>Printed documentation</li> <li>Small accessories kit</li> <li>User documentation CD-ROM</li> </ul>
Packaging, weight	
Packaging, size	671 × 564 × 464 mm (26.4 × 22.2 × 18.3 in.)
EAN-13	7332558008904
UPC-12	845188009441
Country of origin	Sweden

**Supplies & accessories:**

- T197000; High temp. option +1200°C/+2192°F for FLIR T/B2xx to T/B4xx and A3xx, A3xxf, A3xxpt, A3xxsc series
- 4119468; ADAPTER PLATE - PT-SERIES
- 223-0017-00; JOYSTICK ASSY, NEXUS CONSOLE
- 500-0461-00; PEDESTAL MOUNT ASSY - PT-SERIES
- 500-0509-00; POLE ADAPTER - PT-SERIES
- 4124857; POWER SUPPLY ASSY, 24VAC - PT-series
- 500-0460-00; WALL MOUNT ASSY - PT-SERIES



---

**P/N: 61001-1103**

© 2015, FLIR Systems, Inc.  
#61001-1103; r. 24652; en-US

- 324-0010-00; Hard case - PT-SERIES
- 4130235; FLIR Sensors Manager, pro



**P/N: 60902-1104**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 60902-1104  
Commit: 24652  
Language: en-US  
Modified: 2015-04-10 08:49  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR A310pt Pan & Tilt is an affordable solution for anyone who needs to solve problems that require built in "smartness" such as analysis and alarm functionality. The FLIR A310pt Pan & Tilt has all the necessary features and functions to build distributed single- or multi-camera solutions to cover large areas to monitor such as in coal pile monitoring and sub-station monitoring using standard Ethernet hardware and software protocols.

The FLIR A310pt precision pan/tilt mechanism gives operators accurate pointing control while providing fully programmable scan patterns, radar slew-to-cue, and slew-to-alarm functionality.

Multi-sensor configurations also include a day/night 36x zoom color CCD camera on the same pan/tilt package.

## Key features:

- Built-in extensive analysis functionality.
- Extensive alarm functionality, as a function of analysis and more.
- H.264, MPEG-4, and MJPEG streaming.
- Built-in web server.
- 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.).
- Composite video output.
- Precise pan/tilt mechanism.
- Daylight camera.
- IP66 rated.
- IP control: FLIR PT series cameras can be integrated into any existing TCP/IP network and controlled using a personal computer.
- Serial control interface, use Pelco D or Bosch commands over RS-232, RS-422, or RS-485 to remotely control the FLIR A310 pt.
- Multi-camera software: FLIR Sensors Manager allows users to manage and control a FLIR PT series camera in a TCP/IP network.

## Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	45° × 33.8°
Minimum focus distance	0.20 m (0.66 ft.)
Focal length	9.66 mm (0.38 in.)
Spatial resolution (IFOV)	2.59 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	9 Hz
Focus	Automatic or manual (built in motor)
Zoom	1–8x continuous, digital, interpolating zooming on images

## Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm

P/N: 60902-1104

© 2015, FLIR Systems, Inc.  
#60902-1104; r. 24652; en-US

<b>Detector data</b>	
Detector pitch	25 µm
Detector time constant	Typical 12 ms
<b>Measurement</b>	
Object temperature range	<ul style="list-style-type: none"> <li>• -20 to +120°C (-4 to +248°F)</li> <li>• 0 to +350°C (+32 to +662°F)</li> </ul>
Accuracy	±4°C (±7.2°F) or ±4% of reading
<b>Measurement analysis</b>	
Spotmeter	10
Area	10 boxes with max./min./average/position
Isotherm	1 with above/below/interval
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global and individual object parameters
<b>Alarm</b>	
Alarm functions	6 automatic alarms on any selected measurement function, camera temperature
<b>Set-up</b>	
Color palettes	Color palettes (BW, BW inv, Iron, Rain)
Set-up commands	Date/time, Temperature (°C/°F)
<b>Imaging and optical data (visual camera)</b>	
Field of view (FOV)	57.8° (H) to 1.7° (H)
Focal length	3.4 mm (wide) to 122.4 mm (tele)
F-number	1.6 to 4.5
Focus	Automatic or manual (built in motor)
Optical Zoom	36× continuous
Electronic Zoom	12× continuous, digital, interpolating
<b>Detector data (visual camera)</b>	
Focal plane array (FPA)	1/4" Exview HAD CCD
Effective pixels	380.000
<b>Technical specification (pan &amp; tilt)</b>	
Azimuth Range	Az velocity 360° continuous, 0.1 to 60°/sec max
Elevation Range	El velocity ± 45°, 0.1 to 30°/sec. max
Programmable presets	128
Automatic heaters	Clears window from ice. Switched on at +4°C (39°F). Switched off at +15°C (59°F).
<b>Ethernet</b>	
Ethernet	Control, result and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	

**P/N: 60902-1104**

© 2015, FLIR Systems, Inc.  
#60902-1104; r. 24652; en-US

<b>Ethernet</b>	
Ethernet, video streaming	Two independent channels for each camera - MPEG-4, H.264, or M-JPEG
Ethernet, protocols	Ethernet/IP, Modbus TCP, TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP
<b>Composite video</b>	
Video out	Composite video output, NTSC compatible
Video, standard	CVBS (SMPTE 170M NTSC)
<b>Power system</b>	
Power	24 VAC (21-30 VAC; 24 VAC: 215 VA max. with heater) or 24 VDC (21-30 VDC; 24 VDC: 195 W max. with heater).
<b>Environmental data</b>	
Operating temperature range	-25°C to +50°C (-13°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> <li>EN 61000-6-2 (Immunity)</li> <li>EN 61000-6-3 (Emission)</li> <li>FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 66 (IEC 60529)
Bump	5 g, 11 ms (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
<b>Physical data</b>	
Weight	17.9 kg (39.5 lb.)
Size (L × W × H)	460 × 467 × 326 mm (18.1 × 18.4 × 12.8 in.)
Base mounting	
Housing material	Aluminum
<b>Shipping information</b>	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Pan &amp; tilt with infrared camera including lens and visual camera</li> <li>FLIR Sensors Manager download card</li> <li>Lens cap</li> <li>Printed documentation</li> <li>Small accessories kit</li> <li>User documentation CD-ROM</li> </ul>
Packaging, weight	
Packaging, size	671 × 564 × 464 mm (26.4 × 22.2 × 18.3 in.)
EAN-13	7332558008911
UPC-12	845188009458
Country of origin	Sweden

**Supplies & accessories:**

- T197000; High temp. option +1200°C/+2192°F for FLIR T/B2xx to T/B4xx and A3xx, A3xxf, A3xxpt, A3xxsc series
- 4119468; ADAPTER PLATE - PT-SERIES
- 223-0017-00; JOYSTICK ASSY, NEXUS CONSOLE
- 500-0461-00; PEDESTAL MOUNT ASSY - PT-SERIES
- 500-0509-00; POLE ADAPTER - PT-SERIES
- 4124857; POWER SUPPLY ASSY, 24VAC - PT-series
- 500-0460-00; WALL MOUNT ASSY - PT-SERIES



---

**P/N: 60902-1104**

© 2015, FLIR Systems, Inc.  
#60902-1104; r. 24652; en-US

- 324-0010-00; Hard case - PT-SERIES
- 4130235; FLIR Sensors Manager, pro

## P/N: 60901-1104

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 60901-1104  
Commit: 24652  
Language: en-US  
Modified: 2015-04-10 08:49  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The FLIR A310pt Pan & Tilt is an affordable solution for anyone who needs to solve problems that require built in "smartness" such as analysis and alarm functionality. The FLIR A310pt Pan & Tilt has all the necessary features and functions to build distributed single- or multi-camera solutions to cover large areas to monitor such as in coal pile monitoring and sub-station monitoring using standard Ethernet hardware and software protocols.

The FLIR A310pt precision pan/tilt mechanism gives operators accurate pointing control while providing fully programmable scan patterns, radar slew-to-cue, and slew-to-alarm functionality.

Multi-sensor configurations also include a day/night 36x zoom color CCD camera on the same pan/tilt package.

### Key features:

- Built-in extensive analysis functionality.
- Extensive alarm functionality, as a function of analysis and more.
- H.264, MPEG-4, and MJPEG streaming.
- Built-in web server.
- 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.).
- Composite video output.
- Precise pan/tilt mechanism.
- Daylight camera.
- IP66 rated.
- IP control: FLIR PT series cameras can be integrated into any existing TCP/IP network and controlled using a personal computer.
- Serial control interface, use Pelco D or Bosch commands over RS-232, RS-422, or RS-485 to remotely control the FLIR A310 pt.
- Multi-camera software: FLIR Sensors Manager allows users to manage and control a FLIR PT series camera in a TCP/IP network.

### Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	45° × 33.8°
Minimum focus distance	0.20 m (0.66 ft.)
Focal length	9.66 mm (0.38 in.)
Spatial resolution (IFOV)	2.59 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	9 Hz
Focus	Automatic or manual (built in motor)
Zoom	1–8× continuous, digital, interpolating zooming on images

### Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm

**P/N: 60901-1104**

© 2015, FLIR Systems, Inc.  
#60901-1104; r. 24652; en-US

<b>Detector data</b>	
Detector pitch	25 µm
Detector time constant	Typical 12 ms
<b>Measurement</b>	
Object temperature range	<ul style="list-style-type: none"> <li>• -20 to +120°C (-4 to +248°F)</li> <li>• 0 to +350°C (+32 to +662°F)</li> </ul>
Accuracy	±4°C (±7.2°F) or ±4% of reading
<b>Measurement analysis</b>	
Spotmeter	10
Area	10 boxes with max./min./average/position
Isotherm	1 with above/below/interval
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global and individual object parameters
<b>Alarm</b>	
Alarm functions	6 automatic alarms on any selected measurement function, camera temperature
<b>Set-up</b>	
Color palettes	Color palettes (BW, BW inv, Iron, Rain)
Set-up commands	Date/time, Temperature (°C/°F)
<b>Imaging and optical data (visual camera)</b>	
Field of view (FOV)	57.8° (H) to 1.7° (H)
Focal length	3.4 mm (wide) to 122.4 mm (tele)
F-number	1.6 to 4.5
Focus	Automatic or manual (built in motor)
Optical Zoom	36× continuous
Electronic Zoom	12× continuous, digital, interpolating
<b>Detector data (visual camera)</b>	
Focal plane array (FPA)	1/4" Exview HAD CCD
Effective pixels	380.000
<b>Technical specification (pan &amp; tilt)</b>	
Azimuth Range	Az velocity 360° continuous, 0.1 to 60°/sec max
Elevation Range	El velocity ± 45°, 0.1 to 30°/sec. max
Programmable presets	128
Automatic heaters	Clears window from ice. Switched on at +4°C (39°F). Switched off at +15°C (59°F).
<b>Ethernet</b>	
Ethernet	Control, result and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	

**P/N: 60901-1104**

© 2015, FLIR Systems, Inc.  
#60901-1104; r. 24652; en-US

<b>Ethernet</b>	
Ethernet, video streaming	Two independent channels for each camera - MPEG-4, H.264, or M-JPEG
Ethernet, protocols	Ethernet/IP, Modbus TCP, TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP
<b>Composite video</b>	
Video out	Composite video output, PAL compatible
Video, standard	CVBS (ITU-R-BT.470 PAL)
<b>Power system</b>	
Power	24 VAC (21-30 VAC; 24 VAC: 215 VA max. with heater) or 24 VDC (21-30 VDC; 24 VDC: 195 W max. with heater).
<b>Environmental data</b>	
Operating temperature range	-25°C to +50°C (-13°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> <li>EN 61000-6-2 (Immunity)</li> <li>EN 61000-6-3 (Emission)</li> <li>FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 66 (IEC 60529)
Bump	5 g, 11 ms (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
<b>Physical data</b>	
Weight	17.9 kg (39.5 lb.)
Size (L × W × H)	460 × 467 × 326 mm (18.1 × 18.4 × 12.8 in.)
Base mounting	
Housing material	Aluminum
<b>Shipping information</b>	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Pan &amp; tilt with infrared camera including lens and visual camera</li> <li>FLIR Sensors Manager download card</li> <li>Lens cap</li> <li>Printed documentation</li> <li>Small accessories kit</li> <li>User documentation CD-ROM</li> </ul>
Packaging, weight	
Packaging, size	671 × 564 × 464 mm (26.4 × 22.2 × 18.3 in.)
EAN-13	7332558008928
UPC-12	845188009465
Country of origin	Sweden

**Supplies & accessories:**

- T197000; High temp. option +1200°C/+2192°F for FLIR T/B2xx to T/B4xx and A3xx, A3xxf, A3xxpt, A3xxsc series
- 4119468; ADAPTER PLATE - PT-SERIES
- 223-0017-00; JOYSTICK ASSY, NEXUS CONSOLE
- 500-0461-00; PEDESTAL MOUNT ASSY - PT-SERIES
- 500-0509-00; POLE ADAPTER - PT-SERIES
- 4124857; POWER SUPPLY ASSY, 24VAC - PT-series
- 500-0460-00; WALL MOUNT ASSY - PT-SERIES



---

**P/N: 60901-1104**

© 2015, FLIR Systems, Inc.  
#60901-1104; r. 24652; en-US

- 324-0010-00; Hard case - PT-SERIES
- 4130235; FLIR Sensors Manager, pro



## P/N: 61002-1104

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 61002-1104  
Commit: 24652  
Language: en-US  
Modified: 2015-04-10 08:49  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The FLIR A310pt Pan & Tilt is an affordable solution for anyone who needs to solve problems that require built in "smartness" such as analysis and alarm functionality. The FLIR A310pt Pan & Tilt has all the necessary features and functions to build distributed single- or multi-camera solutions to cover large areas to monitor such as in coal pile monitoring and sub-station monitoring using standard Ethernet hardware and software protocols.

The FLIR A310pt precision pan/tilt mechanism gives operators accurate pointing control while providing fully programmable scan patterns, radar slew-to-cue, and slew-to-alarm functionality.

Multi-sensor configurations also include a day/night 36x zoom color CCD camera on the same pan/tilt package.

### Key features:

- Built-in extensive analysis functionality.
- Extensive alarm functionality, as a function of analysis and more.
- H.264, MPEG-4, and MJPEG streaming.
- Built-in web server.
- 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.).
- Composite video output.
- Precise pan/tilt mechanism.
- Daylight camera.
- IP66 rated.
- IP control: FLIR PT series cameras can be integrated into any existing TCP/IP network and controlled using a personal computer.
- Serial control interface, use Pelco D or Bosch commands over RS-232, RS-422, or RS-485 to remotely control the FLIR A310 pt.
- Multi-camera software: FLIR Sensors Manager allows users to manage and control a FLIR PT series camera in a TCP/IP network.

### Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	45° × 33.8°
Minimum focus distance	0.20 m (0.66 ft.)
Focal length	9.66 mm (0.38 in.)
Spatial resolution (IFOV)	2.59 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	30 Hz
Focus	Automatic or manual (built in motor)
Zoom	1–8x continuous, digital, interpolating zooming on images

### Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm

P/N: 61002-1104

© 2015, FLIR Systems, Inc.  
#61002-1104; r. 24652; en-US

<b>Detector data</b>	
Detector pitch	25 µm
Detector time constant	Typical 12 ms
<b>Measurement</b>	
Object temperature range	<ul style="list-style-type: none"> <li>• -20 to +120°C (-4 to +248°F)</li> <li>• 0 to +350°C (+32 to +662°F)</li> </ul>
Accuracy	±4°C (±7.2°F) or ±4% of reading
<b>Measurement analysis</b>	
Spotmeter	10
Area	10 boxes with max./min./average/position
Isotherm	1 with above/below/interval
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global and individual object parameters
<b>Alarm</b>	
Alarm functions	6 automatic alarms on any selected measurement function, camera temperature
<b>Set-up</b>	
Color palettes	Color palettes (BW, BW inv, Iron, Rain)
Set-up commands	Date/time, Temperature (°C/°F)
<b>Imaging and optical data (visual camera)</b>	
Field of view (FOV)	57.8° (H) to 1.7° (H)
Focal length	3.4 mm (wide) to 122.4 mm (tele)
F-number	1.6 to 4.5
Focus	Automatic or manual (built in motor)
Optical Zoom	36× continuous
Electronic Zoom	12× continuous, digital, interpolating
<b>Detector data (visual camera)</b>	
Focal plane array (FPA)	1/4" Exview HAD CCD
Effective pixels	380.000
<b>Technical specification (pan &amp; tilt)</b>	
Azimuth Range	Az velocity 360° continuous, 0.1 to 60°/sec max
Elevation Range	El velocity ± 45°, 0.1 to 30°/sec. max
Programmable presets	128
Automatic heaters	Clears window from ice. Switched on at +4°C (39°F). Switched off at +15°C (59°F).
<b>Ethernet</b>	
Ethernet	Control, result and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	

**P/N: 61002-1104**

 © 2015, FLIR Systems, Inc.  
 #61002-1104; r. 24652; en-US

<b>Ethernet</b>	
Ethernet, video streaming	Two independent channels for each camera - MPEG-4, H.264, or M-JPEG
Ethernet, protocols	Ethernet/IP, Modbus TCP, TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP
<b>Composite video</b>	
Video out	Composite video output, NTSC compatible
Video, standard	CVBS (SMPTE 170M NTSC)
<b>Power system</b>	
Power	24 VAC (21-30 VAC; 24 VAC: 215 VA max. with heater) or 24 VDC (21-30 VDC; 24 VDC: 195 W max. with heater).
<b>Environmental data</b>	
Operating temperature range	-25°C to +50°C (-13°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> <li>EN 61000-6-2 (Immunity)</li> <li>EN 61000-6-3 (Emission)</li> <li>FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 66 (IEC 60529)
Bump	5 g, 11 ms (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
<b>Physical data</b>	
Weight	17.9 kg (39.5 lb.)
Size (L × W × H)	460 × 467 × 326 mm (18.1 × 18.4 × 12.8 in.)
Base mounting	
Housing material	Aluminum
<b>Shipping information</b>	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Pan &amp; tilt with infrared camera including lens and visual camera</li> <li>FLIR Sensors Manager download card</li> <li>Lens cap</li> <li>Printed documentation</li> <li>Small accessories kit</li> <li>User documentation CD-ROM</li> </ul>
Packaging, weight	
Packaging, size	671 × 564 × 464 mm (26.4 × 22.2 × 18.3 in.)
EAN-13	7332558008935
UPC-12	845188009472
Country of origin	Sweden

**Supplies & accessories:**

- T197000; High temp. option +1200°C/+2192°F for FLIR T/B2xx to T/B4xx and A3xx, A3xxf, A3xxpt, A3xxsc series
- 4119468; ADAPTER PLATE - PT-SERIES
- 223-0017-00; JOYSTICK ASSY, NEXUS CONSOLE
- 500-0461-00; PEDESTAL MOUNT ASSY - PT-SERIES
- 500-0509-00; POLE ADAPTER - PT-SERIES
- 4124857; POWER SUPPLY ASSY, 24VAC - PT-series
- 500-0460-00; WALL MOUNT ASSY - PT-SERIES



---

**P/N: 61002-1104**

© 2015, FLIR Systems, Inc.  
#61002-1104; r. 24652; en-US

- 324-0010-00; Hard case - PT-SERIES
- 4130235; FLIR Sensors Manager, pro

## P/N: 61001-1104

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 61001-1104  
Commit: 24652  
Language: en-US  
Modified: 2015-04-10 08:49  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The FLIR A310pt Pan & Tilt is an affordable solution for anyone who needs to solve problems that require built in "smartness" such as analysis and alarm functionality. The FLIR A310pt Pan & Tilt has all the necessary features and functions to build distributed single- or multi-camera solutions to cover large areas to monitor such as in coal pile monitoring and sub-station monitoring using standard Ethernet hardware and software protocols.

The FLIR A310pt precision pan/tilt mechanism gives operators accurate pointing control while providing fully programmable scan patterns, radar slew-to-cue, and slew-to-alarm functionality.

Multi-sensor configurations also include a day/night 36x zoom color CCD camera on the same pan/tilt package.

### Key features:

- Built-in extensive analysis functionality.
- Extensive alarm functionality, as a function of analysis and more.
- H.264, MPEG-4, and MJPEG streaming.
- Built-in web server.
- 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.).
- Composite video output.
- Precise pan/tilt mechanism.
- Daylight camera.
- IP66 rated.
- IP control: FLIR PT series cameras can be integrated into any existing TCP/IP network and controlled using a personal computer.
- Serial control interface, use Pelco D or Bosch commands over RS-232, RS-422, or RS-485 to remotely control the FLIR A310 pt.
- Multi-camera software: FLIR Sensors Manager allows users to manage and control a FLIR PT series camera in a TCP/IP network.

### Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	45° × 33.8°
Minimum focus distance	0.20 m (0.66 ft.)
Focal length	9.66 mm (0.38 in.)
Spatial resolution (IFOV)	2.59 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	30 Hz
Focus	Automatic or manual (built in motor)
Zoom	1–8x continuous, digital, interpolating zooming on images

### Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm

P/N: 61001-1104

© 2015, FLIR Systems, Inc.  
#61001-1104; r. 24652; en-US

<b>Detector data</b>	
Detector pitch	25 µm
Detector time constant	Typical 12 ms
<b>Measurement</b>	
Object temperature range	<ul style="list-style-type: none"> <li>• -20 to +120°C (-4 to +248°F)</li> <li>• 0 to +350°C (+32 to +662°F)</li> </ul>
Accuracy	±4°C (±7.2°F) or ±4% of reading
<b>Measurement analysis</b>	
Spotmeter	10
Area	10 boxes with max./min./average/position
Isotherm	1 with above/below/interval
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global and individual object parameters
<b>Alarm</b>	
Alarm functions	6 automatic alarms on any selected measurement function, camera temperature
<b>Set-up</b>	
Color palettes	Color palettes (BW, BW inv, Iron, Rain)
Set-up commands	Date/time, Temperature (°C/°F)
<b>Imaging and optical data (visual camera)</b>	
Field of view (FOV)	57.8° (H) to 1.7° (H)
Focal length	3.4 mm (wide) to 122.4 mm (tele)
F-number	1.6 to 4.5
Focus	Automatic or manual (built in motor)
Optical Zoom	36× continuous
Electronic Zoom	12× continuous, digital, interpolating
<b>Detector data (visual camera)</b>	
Focal plane array (FPA)	1/4" Exview HAD CCD
Effective pixels	380.000
<b>Technical specification (pan &amp; tilt)</b>	
Azimuth Range	Az velocity 360° continuous, 0.1 to 60°/sec max
Elevation Range	El velocity ± 45°, 0.1 to 30°/sec. max
Programmable presets	128
Automatic heaters	Clears window from ice. Switched on at +4°C (39°F). Switched off at +15°C (59°F).
<b>Ethernet</b>	
Ethernet	Control, result and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	

**P/N: 61001-1104**

© 2015, FLIR Systems, Inc.  
#61001-1104; r. 24652; en-US

Ethernet	
Ethernet, video streaming	Two independent channels for each camera - MPEG-4, H.264, or M-JPEG
Ethernet, protocols	Ethernet/IP, Modbus TCP, TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP
Composite video	
Video out	Composite video output, PAL compatible
Video, standard	CVBS (ITU-R-BT.470 PAL)
Power system	
Power	24 VAC (21-30 VAC; 24 VAC: 215 VA max. with heater) or 24 VDC (21-30 VDC; 24 VDC: 195 W max. with heater).
Environmental data	
Operating temperature range	-25°C to +50°C (-13°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> <li>EN 61000-6-2 (Immunity)</li> <li>EN 61000-6-3 (Emission)</li> <li>FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 66 (IEC 60529)
Bump	5 g, 11 ms (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Physical data	
Weight	17.9 kg (39.5 lb.)
Size (L × W × H)	460 × 467 × 326 mm (18.1 × 18.4 × 12.8 in.)
Base mounting	
Housing material	Aluminum
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Pan &amp; tilt with infrared camera including lens and visual camera</li> <li>Calibration certificate</li> <li>Downloads brochure</li> <li>FLIR Sensors Manager CD-ROM</li> <li>Lens cap</li> <li>Printed Getting Started Guide</li> <li>Printed Important Information Guide</li> <li>Service &amp; training brochure</li> <li>Small accessories kit</li> <li>User documentation CD-ROM</li> <li>Registration card</li> </ul>
Packaging, weight	
Packaging, size	671 × 564 × 464 mm (26.4 × 22.2 × 18.3 in.)
EAN-13	7332558008942
UPC-12	845188009489
Country of origin	Sweden

**Supplies & accessories:**

- T197000; High temp. option +1200°C/+2192°F for FLIR T/B2xx to T/B4xx and A3xx, A3xxf, A3xxpt, A3xxsc series
- 4119468; ADAPTER PLATE - PT-SERIES
- 223-0017-00; JOYSTICK ASSY, NEXUS CONSOLE



---

**P/N: 61001-1104**

© 2015, FLIR Systems, Inc.  
#61001-1104; r. 24652; en-US

- 500-0461-00; PEDESTAL MOUNT ASSY - PT-SERIES
- 500-0509-00; POLE ADAPTER - PT-SERIES
- 4124857; POWER SUPPLY ASSY, 24VAC - PT-series
- 500-0460-00; WALL MOUNT ASSY - PT-SERIES
- 324-0010-00; Hard case - PT-SERIES
- 4130235; FLIR Sensors Manager, pro



**P/N: 60902-1101**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 60902-1101  
Commit: 24652  
Language: en-US  
Modified: 2015-04-10 08:49  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR A310pt Pan & Tilt is an affordable solution for anyone who needs to solve problems that require built in "smartness" such as analysis and alarm functionality. The FLIR A310pt Pan & Tilt has all the necessary features and functions to build distributed single- or multi-camera solutions to cover large areas to monitor such as in coal pile monitoring and sub-station monitoring using standard Ethernet hardware and software protocols.

The FLIR A310pt precision pan/tilt mechanism gives operators accurate pointing control while providing fully programmable scan patterns, radar slew-to-cue, and slew-to-alarm functionality.

Multi-sensor configurations also include a day/night 36x zoom color CCD camera on the same pan/tilt package.

## Key features:

- Built-in extensive analysis functionality.
- Extensive alarm functionality, as a function of analysis and more.
- H.264, MPEG-4, and MJPEG streaming.
- Built-in web server.
- 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.).
- Composite video output.
- Precise pan/tilt mechanism.
- Daylight camera.
- IP66 rated.
- IP control: FLIR PT series cameras can be integrated into any existing TCP/IP network and controlled using a personal computer.
- Serial control interface, use Pelco D or Bosch commands over RS-232, RS-422, or RS-485 to remotely control the FLIR A310 pt.
- Multi-camera software: FLIR Sensors Manager allows users to manage and control a FLIR PT series camera in a TCP/IP network.

## Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	6° × 4.5°
Minimum focus distance	4 m (13.11 ft.)
Focal length	76 mm (3.0 in.)
Spatial resolution (IFOV)	0.33 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	9 Hz
Focus	Automatic or manual (built in motor)
Zoom	1–8x continuous, digital, interpolating zooming on images

## Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm

P/N: 60902-1101

© 2015, FLIR Systems, Inc.  
#60902-1101; r. 24652; en-US

<b>Detector data</b>	
Detector pitch	25 µm
Detector time constant	Typical 12 ms
<b>Measurement</b>	
Object temperature range	<ul style="list-style-type: none"> <li>• -20 to +120°C (-4 to +248°F)</li> <li>• 0 to +350°C (+32 to +662°F)</li> </ul>
Accuracy	±4°C (±7.2°F) or ±4% of reading
<b>Measurement analysis</b>	
Spotmeter	10
Area	10 boxes with max./min./average/position
Isotherm	1 with above/below/interval
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global and individual object parameters
<b>Alarm</b>	
Alarm functions	6 automatic alarms on any selected measurement function, camera temperature
<b>Set-up</b>	
Color palettes	Color palettes (BW, BW inv, Iron, Rain)
Set-up commands	Date/time, Temperature (°C/°F)
<b>Imaging and optical data (visual camera)</b>	
Field of view (FOV)	57.8° (H) to 1.7° (H)
Focal length	3.4 mm (wide) to 122.4 mm (tele)
F-number	1.6 to 4.5
Focus	Automatic or manual (built in motor)
Optical Zoom	36× continuous
Electronic Zoom	12× continuous, digital, interpolating
<b>Detector data (visual camera)</b>	
Focal plane array (FPA)	1/4" Exview HAD CCD
Effective pixels	380.000
<b>Technical specification (pan &amp; tilt)</b>	
Azimuth Range	Az velocity 360° continuous, 0.1 to 60°/sec max
Elevation Range	El velocity ± 45°, 0.1 to 30°/sec. max
Programmable presets	128
Automatic heaters	Clears window from ice. Switched on at +4°C (39°F). Switched off at +15°C (59°F).
<b>Ethernet</b>	
Ethernet	Control, result and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	

**P/N: 60902-1101**

 © 2015, FLIR Systems, Inc.  
 #60902-1101; r. 24652; en-US

<b>Ethernet</b>	
Ethernet, video streaming	Two independent channels for each camera - MPEG-4, H.264, or M-JPEG
Ethernet, protocols	Ethernet/IP, Modbus TCP, TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP
<b>Composite video</b>	
Video out	Composite video output, NTSC compatible
Video, standard	CVBS (SMPTE 170M NTSC)
<b>Power system</b>	
Power	24 VAC (21-30 VAC; 24 VAC: 215 VA max. with heater) or 24 VDC (21-30 VDC; 24 VDC: 195 W max. with heater).
<b>Environmental data</b>	
Operating temperature range	-25°C to +50°C (-13°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> <li>EN 61000-6-2 (Immunity)</li> <li>EN 61000-6-3 (Emission)</li> <li>FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 66 (IEC 60529)
Bump	5 g, 11 ms (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
<b>Physical data</b>	
Weight	18.1 kg (40.0 lb.)
Size (L × W × H)	460 × 467 × 326 mm (18.1 × 18.4 × 12.8 in.)
Base mounting	
Housing material	Aluminum
<b>Shipping information</b>	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Pan &amp; tilt with infrared camera including lens and visual camera</li> <li>FLIR Sensors Manager download card</li> <li>Lens cap</li> <li>Printed documentation</li> <li>Small accessories kit</li> <li>User documentation CD-ROM</li> </ul>
Packaging, weight	
Packaging, size	671 × 564 × 464 mm (26.4 × 22.2 × 18.3 in.)
EAN-13	7332558008850
UPC-12	845188009397
Country of origin	Sweden

**Supplies & accessories:**

- T197000; High temp. option +1200°C/+2192°F for FLIR T/B2xx to T/B4xx and A3xx, A3xxf, A3xxpt, A3xxsc series
- 4119468; ADAPTER PLATE - PT-SERIES
- 223-0017-00; JOYSTICK ASSY, NEXUS CONSOLE
- 500-0461-00; PEDESTAL MOUNT ASSY - PT-SERIES
- 500-0509-00; POLE ADAPTER - PT-SERIES
- 4124857; POWER SUPPLY ASSY, 24VAC - PT-series
- 500-0460-00; WALL MOUNT ASSY - PT-SERIES



---

**P/N: 60902-1101**

© 2015, FLIR Systems, Inc.  
#60902-1101; r. 24652; en-US

- 324-0010-00; Hard case - PT-SERIES
- 4130235; FLIR Sensors Manager, pro

**P/N: 60901-1101**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 60901-1101  
Commit: 24652  
Language: en-US  
Modified: 2015-04-10 08:49  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR A310pt Pan & Tilt is an affordable solution for anyone who needs to solve problems that require built in "smartness" such as analysis and alarm functionality. The FLIR A310pt Pan & Tilt has all the necessary features and functions to build distributed single- or multi-camera solutions to cover large areas to monitor such as in coal pile monitoring and sub-station monitoring using standard Ethernet hardware and software protocols.

The FLIR A310pt precision pan/tilt mechanism gives operators accurate pointing control while providing fully programmable scan patterns, radar slew-to-cue, and slew-to-alarm functionality.

Multi-sensor configurations also include a day/night 36x zoom color CCD camera on the same pan/tilt package.

## Key features:

- Built-in extensive analysis functionality.
- Extensive alarm functionality, as a function of analysis and more.
- H.264, MPEG-4, and MJPEG streaming.
- Built-in web server.
- 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.).
- Composite video output.
- Precise pan/tilt mechanism.
- Daylight camera.
- IP66 rated.
- IP control: FLIR PT series cameras can be integrated into any existing TCP/IP network and controlled using a personal computer.
- Serial control interface, use Pelco D or Bosch commands over RS-232, RS-422, or RS-485 to remotely control the FLIR A310 pt.
- Multi-camera software: FLIR Sensors Manager allows users to manage and control a FLIR PT series camera in a TCP/IP network.

## Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	6° × 4.5°
Minimum focus distance	4 m (13.11 ft.)
Focal length	76 mm (3.0 in.)
Spatial resolution (IFOV)	0.33 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	9 Hz
Focus	Automatic or manual (built in motor)
Zoom	1–8x continuous, digital, interpolating zooming on images

## Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm

P/N: 60901-1101

© 2015, FLIR Systems, Inc.  
#60901-1101; r. 24652; en-US

<b>Detector data</b>	
Detector pitch	25 µm
Detector time constant	Typical 12 ms
<b>Measurement</b>	
Object temperature range	<ul style="list-style-type: none"> <li>• -20 to +120°C (-4 to +248°F)</li> <li>• 0 to +350°C (+32 to +662°F)</li> </ul>
Accuracy	±4°C (±7.2°F) or ±4% of reading
<b>Measurement analysis</b>	
Spotmeter	10
Area	10 boxes with max./min./average/position
Isotherm	1 with above/below/interval
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global and individual object parameters
<b>Alarm</b>	
Alarm functions	6 automatic alarms on any selected measurement function, camera temperature
<b>Set-up</b>	
Color palettes	Color palettes (BW, BW inv, Iron, Rain)
Set-up commands	Date/time, Temperature (°C/°F)
<b>Imaging and optical data (visual camera)</b>	
Field of view (FOV)	57.8° (H) to 1.7° (H)
Focal length	3.4 mm (wide) to 122.4 mm (tele)
F-number	1.6 to 4.5
Focus	Automatic or manual (built in motor)
Optical Zoom	36× continuous
Electronic Zoom	12× continuous, digital, interpolating
<b>Detector data (visual camera)</b>	
Focal plane array (FPA)	1/4" Exview HAD CCD
Effective pixels	380.000
<b>Technical specification (pan &amp; tilt)</b>	
Azimuth Range	Az velocity 360° continuous, 0.1 to 60°/sec max
Elevation Range	El velocity ± 45°, 0.1 to 30°/sec. max
Programmable presets	128
Automatic heaters	Clears window from ice. Switched on at +4°C (39°F). Switched off at +15°C (59°F).
<b>Ethernet</b>	
Ethernet	Control, result and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	

**P/N: 60901-1101**

 © 2015, FLIR Systems, Inc.  
 #60901-1101; r. 24652; en-US

<b>Ethernet</b>	
Ethernet, video streaming	Two independent channels for each camera - MPEG-4, H.264, or M-JPEG
Ethernet, protocols	Ethernet/IP, Modbus TCP, TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP
<b>Composite video</b>	
Video out	Composite video output, PAL compatible
Video, standard	CVBS (ITU-R-BT.470 PAL)
<b>Power system</b>	
Power	24 VAC (21-30 VAC; 24 VAC: 215 VA max. with heater) or 24 VDC (21-30 VDC; 24 VDC: 195 W max. with heater).
<b>Environmental data</b>	
Operating temperature range	-25°C to +50°C (-13°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> <li>EN 61000-6-2 (Immunity)</li> <li>EN 61000-6-3 (Emission)</li> <li>FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 66 (IEC 60529)
Bump	5 g, 11 ms (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
<b>Physical data</b>	
Weight	18.1 kg (40.0 lb.)
Size (L × W × H)	460 × 467 × 326 mm (18.1 × 18.4 × 12.8 in.)
Base mounting	
Housing material	Aluminum
<b>Shipping information</b>	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Pan &amp; tilt with infrared camera including lens and visual camera</li> <li>FLIR Sensors Manager download card</li> <li>Lens cap</li> <li>Printed documentation</li> <li>Small accessories kit</li> <li>User documentation CD-ROM</li> </ul>
Packaging, weight	
Packaging, size	671 × 564 × 464 mm (26.4 × 22.2 × 18.3 in.)
EAN-13	7332558007938
UPC-12	845188008291
Country of origin	Sweden

**Supplies & accessories:**

- T197000; High temp. option +1200°C/+2192°F for FLIR T/B2xx to T/B4xx and A3xx, A3xxf, A3xxpt, A3xxsc series
- 4119468; ADAPTER PLATE - PT-SERIES
- 223-0017-00; JOYSTICK ASSY, NEXUS CONSOLE
- 500-0461-00; PEDESTAL MOUNT ASSY - PT-SERIES
- 500-0509-00; POLE ADAPTER - PT-SERIES
- 4124857; POWER SUPPLY ASSY, 24VAC - PT-series
- 500-0460-00; WALL MOUNT ASSY - PT-SERIES



---

**P/N: 60901-1101**

© 2015, FLIR Systems, Inc.  
#60901-1101; r. 24652; en-US

- 324-0010-00; Hard case - PT-SERIES
- 4130235; FLIR Sensors Manager, pro



**P/N: 61002-1101**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 61002-1101  
Commit: 24652  
Language: en-US  
Modified: 2015-04-10 08:49  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR A310pt Pan & Tilt is an affordable solution for anyone who needs to solve problems that require built in "smartness" such as analysis and alarm functionality. The FLIR A310pt Pan & Tilt has all the necessary features and functions to build distributed single- or multi-camera solutions to cover large areas to monitor such as in coal pile monitoring and sub-station monitoring using standard Ethernet hardware and software protocols.

The FLIR A310pt precision pan/tilt mechanism gives operators accurate pointing control while providing fully programmable scan patterns, radar slew-to-cue, and slew-to-alarm functionality.

Multi-sensor configurations also include a day/night 36x zoom color CCD camera on the same pan/tilt package.

## Key features:

- Built-in extensive analysis functionality.
- Extensive alarm functionality, as a function of analysis and more.
- H.264, MPEG-4, and MJPEG streaming.
- Built-in web server.
- 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.).
- Composite video output.
- Precise pan/tilt mechanism.
- Daylight camera.
- IP66 rated.
- IP control: FLIR PT series cameras can be integrated into any existing TCP/IP network and controlled using a personal computer.
- Serial control interface, use Pelco D or Bosch commands over RS-232, RS-422, or RS-485 to remotely control the FLIR A310 pt.
- Multi-camera software: FLIR Sensors Manager allows users to manage and control a FLIR PT series camera in a TCP/IP network.

## Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	6° × 4.5°
Minimum focus distance	4 m (13.11 ft.)
Focal length	76 mm (3.0 in.)
Spatial resolution (IFOV)	0.33 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	30 Hz
Focus	Automatic or manual (built in motor)
Zoom	1–8x continuous, digital, interpolating zooming on images

## Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm

P/N: 61002-1101

© 2015, FLIR Systems, Inc.  
#61002-1101; r. 24652; en-US

<b>Detector data</b>	
Detector pitch	25 µm
Detector time constant	Typical 12 ms
<b>Measurement</b>	
Object temperature range	<ul style="list-style-type: none"> <li>• -20 to +120°C (-4 to +248°F)</li> <li>• 0 to +350°C (+32 to +662°F)</li> </ul>
Accuracy	±4°C (±7.2°F) or ±4% of reading
<b>Measurement analysis</b>	
Spotmeter	10
Area	10 boxes with max./min./average/position
Isotherm	1 with above/below/interval
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global and individual object parameters
<b>Alarm</b>	
Alarm functions	6 automatic alarms on any selected measurement function, camera temperature
<b>Set-up</b>	
Color palettes	Color palettes (BW, BW inv, Iron, Rain)
Set-up commands	Date/time, Temperature (°C/°F)
<b>Imaging and optical data (visual camera)</b>	
Field of view (FOV)	57.8° (H) to 1.7° (H)
Focal length	3.4 mm (wide) to 122.4 mm (tele)
F-number	1.6 to 4.5
Focus	Automatic or manual (built in motor)
Optical Zoom	36× continuous
Electronic Zoom	12× continuous, digital, interpolating
<b>Detector data (visual camera)</b>	
Focal plane array (FPA)	1/4" Exview HAD CCD
Effective pixels	380.000
<b>Technical specification (pan &amp; tilt)</b>	
Azimuth Range	Az velocity 360° continuous, 0.1 to 60°/sec max
Elevation Range	El velocity ± 45°, 0.1 to 30°/sec. max
Programmable presets	128
Automatic heaters	Clears window from ice. Switched on at +4°C (39°F). Switched off at +15°C (59°F).
<b>Ethernet</b>	
Ethernet	Control, result and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	

**P/N: 61002-1101**

© 2015, FLIR Systems, Inc.  
#61002-1101; r. 24652; en-US

Ethernet	
Ethernet, video streaming	Two independent channels for each camera - MPEG-4, H.264, or M-JPEG
Ethernet, protocols	Ethernet/IP, Modbus TCP, TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP
Composite video	
Video out	Composite video output, NTSC compatible
Video, standard	CVBS (SMPTE 170M NTSC)
Power system	
Power	24 VAC (21-30 VAC; 24 VAC: 215 VA max. with heater) or 24 VDC (21-30 VDC; 24 VDC: 195 W max. with heater).
Environmental data	
Operating temperature range	-25°C to +50°C (-13°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> <li>EN 61000-6-2 (Immunity)</li> <li>EN 61000-6-3 (Emission)</li> <li>FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 66 (IEC 60529)
Bump	5 g, 11 ms (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Physical data	
Weight	18.1 kg (40.0 lb.)
Size (L × W × H)	460 × 467 × 326 mm (18.1 × 18.4 × 12.8 in.)
Base mounting	
Housing material	Aluminum
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Pan &amp; tilt with infrared camera including lens and visual camera</li> <li>FLIR Sensors Manager download card</li> <li>Lens cap</li> <li>Printed documentation</li> <li>Small accessories kit</li> <li>User documentation CD-ROM</li> </ul>
Packaging, weight	
Packaging, size	671 × 564 × 464 mm (26.4 × 22.2 × 18.3 in.)
EAN-13	7332558007242
UPC-12	845188007614
Country of origin	Sweden

**Supplies & accessories:**

- T197000; High temp. option +1200°C/+2192°F for FLIR T/B2xx to T/B4xx and A3xx, A3xxf, A3xxpt, A3xxsc series
- 4119468; ADAPTER PLATE - PT-SERIES
- 223-0017-00; JOYSTICK ASSY, NEXUS CONSOLE
- 500-0461-00; PEDESTAL MOUNT ASSY - PT-SERIES
- 500-0509-00; POLE ADAPTER - PT-SERIES
- 4124857; POWER SUPPLY ASSY, 24VAC - PT-series
- 500-0460-00; WALL MOUNT ASSY - PT-SERIES



---

**P/N: 61002-1101**

© 2015, FLIR Systems, Inc.  
#61002-1101; r. 24652; en-US

- 324-0010-00; Hard case - PT-SERIES
- 4130235; FLIR Sensors Manager, pro

**P/N: 61001-1101**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 61001-1101  
Commit: 24652  
Language: en-US  
Modified: 2015-04-10 08:49  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR A310pt Pan & Tilt is an affordable solution for anyone who needs to solve problems that require built in "smartness" such as analysis and alarm functionality. The FLIR A310pt Pan & Tilt has all the necessary features and functions to build distributed single- or multi-camera solutions to cover large areas to monitor such as in coal pile monitoring and sub-station monitoring using standard Ethernet hardware and software protocols.

The FLIR A310pt precision pan/tilt mechanism gives operators accurate pointing control while providing fully programmable scan patterns, radar slew-to-cue, and slew-to-alarm functionality.

Multi-sensor configurations also include a day/night 36x zoom color CCD camera on the same pan/tilt package.

## Key features:

- Built-in extensive analysis functionality.
- Extensive alarm functionality, as a function of analysis and more.
- H.264, MPEG-4, and MJPEG streaming.
- Built-in web server.
- 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.).
- Composite video output.
- Precise pan/tilt mechanism.
- Daylight camera.
- IP66 rated.
- IP control: FLIR PT series cameras can be integrated into any existing TCP/IP network and controlled using a personal computer.
- Serial control interface, use Pelco D or Bosch commands over RS-232, RS-422, or RS-485 to remotely control the FLIR A310 pt.
- Multi-camera software: FLIR Sensors Manager allows users to manage and control a FLIR PT series camera in a TCP/IP network.

## Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	6° × 4.5°
Minimum focus distance	4 m (13.11 ft.)
Focal length	76 mm (3.0 in.)
Spatial resolution (IFOV)	0.33 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	30 Hz
Focus	Automatic or manual (built in motor)
Zoom	1–8x continuous, digital, interpolating zooming on images

## Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm

P/N: 61001-1101

© 2015, FLIR Systems, Inc.  
#61001-1101; r. 24652; en-US

<b>Detector data</b>	
Detector pitch	25 µm
Detector time constant	Typical 12 ms
<b>Measurement</b>	
Object temperature range	<ul style="list-style-type: none"> <li>• -20 to +120°C (-4 to +248°F)</li> <li>• 0 to +350°C (+32 to +662°F)</li> </ul>
Accuracy	±4°C (±7.2°F) or ±4% of reading
<b>Measurement analysis</b>	
Spotmeter	10
Area	10 boxes with max./min./average/position
Isotherm	1 with above/below/interval
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global and individual object parameters
<b>Alarm</b>	
Alarm functions	6 automatic alarms on any selected measurement function, camera temperature
<b>Set-up</b>	
Color palettes	Color palettes (BW, BW inv, Iron, Rain)
Set-up commands	Date/time, Temperature (°C/°F)
<b>Imaging and optical data (visual camera)</b>	
Field of view (FOV)	57.8° (H) to 1.7° (H)
Focal length	3.4 mm (wide) to 122.4 mm (tele)
F-number	1.6 to 4.5
Focus	Automatic or manual (built in motor)
Optical Zoom	36× continuous
Electronic Zoom	12× continuous, digital, interpolating
<b>Detector data (visual camera)</b>	
Focal plane array (FPA)	1/4" Exview HAD CCD
Effective pixels	380.000
<b>Technical specification (pan &amp; tilt)</b>	
Azimuth Range	Az velocity 360° continuous, 0.1 to 60°/sec max
Elevation Range	El velocity ± 45°, 0.1 to 30°/sec. max
Programmable presets	128
Automatic heaters	Clears window from ice. Switched on at +4°C (39°F). Switched off at +15°C (59°F).
<b>Ethernet</b>	
Ethernet	Control, result and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	

P/N: 61001-1101

© 2015, FLIR Systems, Inc.  
#61001-1101; r. 24652; en-US

Ethernet	
Ethernet, video streaming	Two independent channels for each camera - MPEG-4, H.264, or M-JPEG
Ethernet, protocols	Ethernet/IP, Modbus TCP, TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP
Composite video	
Video out	Composite video output, PAL compatible
Video, standard	CVBS (ITU-R-BT.470 PAL)
Power system	
Power	24 VAC (21-30 VAC; 24 VAC: 215 VA max. with heater) or 24 VDC (21-30 VDC; 24 VDC: 195 W max. with heater).
Environmental data	
Operating temperature range	-25°C to +50°C (-13°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> <li>EN 61000-6-2 (Immunity)</li> <li>EN 61000-6-3 (Emission)</li> <li>FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 66 (IEC 60529)
Bump	5 g, 11 ms (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Physical data	
Weight	18.1 kg (40.0 lb.)
Size (L × W × H)	460 × 467 × 326 mm (18.1 × 18.4 × 12.8 in.)
Base mounting	
Housing material	Aluminum
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Pan &amp; tilt with infrared camera including lens and visual camera</li> <li>FLIR Sensors Manager download card</li> <li>Lens cap</li> <li>Printed documentation</li> <li>Small accessories kit</li> <li>User documentation CD-ROM</li> </ul>
Packaging, weight	
Packaging, size	671 × 564 × 464 mm (26.4 × 22.2 × 18.3 in.)
EAN-13	7332558005934
UPC-12	845188006129
Country of origin	Sweden

#### Supplies & accessories:

- T197000; High temp. option +1200°C/+2192°F for FLIR T/B2xx to T/B4xx and A3xx, A3xxf, A3xxpt, A3xxsc series
- 4119468; ADAPTER PLATE - PT-SERIES
- 223-0017-00; JOYSTICK ASSY, NEXUS CONSOLE
- 500-0461-00; PEDESTAL MOUNT ASSY - PT-SERIES
- 500-0509-00; POLE ADAPTER - PT-SERIES
- 4124857; POWER SUPPLY ASSY, 24VAC - PT-series
- 500-0460-00; WALL MOUNT ASSY - PT-SERIES



---

**P/N: 61001-1101**

© 2015, FLIR Systems, Inc.  
#61001-1101; r. 24652; en-US

- 324-0010-00; Hard case - PT-SERIES
- 4130235; FLIR Sensors Manager, pro



## P/N: 60902-1105

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 60902-1105  
Commit: 24652  
Language: en-US  
Modified: 2015-04-10 08:49  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The FLIR A310pt Pan & Tilt is an affordable solution for anyone who needs to solve problems that require built in "smartness" such as analysis and alarm functionality. The FLIR A310pt Pan & Tilt has all the necessary features and functions to build distributed single- or multi-camera solutions to cover large areas to monitor such as in coal pile monitoring and sub-station monitoring using standard Ethernet hardware and software protocols.

The FLIR A310pt precision pan/tilt mechanism gives operators accurate pointing control while providing fully programmable scan patterns, radar slew-to-cue, and slew-to-alarm functionality.

Multi-sensor configurations also include a day/night 36x zoom color CCD camera on the same pan/tilt package.

### Key features:

- Built-in extensive analysis functionality.
- Extensive alarm functionality, as a function of analysis and more.
- H.264, MPEG-4, and MJPEG streaming.
- Built-in web server.
- 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.).
- Composite video output.
- Precise pan/tilt mechanism.
- Daylight camera.
- IP66 rated.
- IP control: FLIR PT series cameras can be integrated into any existing TCP/IP network and controlled using a personal computer.
- Serial control interface, use Pelco D or Bosch commands over RS-232, RS-422, or RS-485 to remotely control the FLIR A310 pt.
- Multi-camera software: FLIR Sensors Manager allows users to manage and control a FLIR PT series camera in a TCP/IP network.

### Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	90° × 73°
Minimum focus distance	20 mm (0.79 in.)
Focal length	4 mm (0.157 in.)
Spatial resolution (IFOV)	6.3 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	9 Hz
Focus	Automatic or manual (built in motor)
Zoom	1–8x continuous, digital, interpolating zooming on images

### Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm

**P/N: 60902-1105**

© 2015, FLIR Systems, Inc.  
#60902-1105; r. 24652; en-US

<b>Detector data</b>	
Detector pitch	25 µm
Detector time constant	Typical 12 ms
<b>Measurement</b>	
Object temperature range	<ul style="list-style-type: none"> <li>• -20 to +120°C (-4 to +248°F)</li> <li>• 0 to +350°C (+32 to +662°F)</li> </ul>
Accuracy	±4°C (±7.2°F) or ±4% of reading
<b>Measurement analysis</b>	
Spotmeter	10
Area	10 boxes with max./min./average/position
Isotherm	1 with above/below/interval
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global and individual object parameters
<b>Alarm</b>	
Alarm functions	6 automatic alarms on any selected measurement function, camera temperature
<b>Set-up</b>	
Color palettes	Color palettes (BW, BW inv, Iron, Rain)
Set-up commands	Date/time, Temperature (°C/°F)
<b>Imaging and optical data (visual camera)</b>	
Field of view (FOV)	57.8° (H) to 1.7° (H)
Focal length	3.4 mm (wide) to 122.4 mm (tele)
F-number	1.6 to 4.5
Focus	Automatic or manual (built in motor)
Optical Zoom	36× continuous
Electronic Zoom	12× continuous, digital, interpolating
<b>Detector data (visual camera)</b>	
Focal plane array (FPA)	1/4" Exview HAD CCD
Effective pixels	380.000
<b>Technical specification (pan &amp; tilt)</b>	
Azimuth Range	Az velocity 360° continuous, 0.1 to 60°/sec max
Elevation Range	El velocity ± 45°, 0.1 to 30°/sec. max
Programmable presets	128
Automatic heaters	Clears window from ice. Switched on at +4°C (39°F). Switched off at +15°C (59°F).
<b>Ethernet</b>	
Ethernet	Control, result and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	

**P/N: 60902-1105**

© 2015, FLIR Systems, Inc.  
#60902-1105; r. 24652; en-US

<b>Ethernet</b>	
Ethernet, video streaming	Two independent channels for each camera - MPEG-4, H.264, or M-JPEG
Ethernet, protocols	Ethernet/IP, Modbus TCP, TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP
<b>Composite video</b>	
Video out	Composite video output, NTSC compatible
Video, standard	CVBS (SMPTE 170M NTSC)
<b>Power system</b>	
Power	24 VAC (21-30 VAC; 24 VAC: 215 VA max. with heater) or 24 VDC (21-30 VDC; 24 VDC: 195 W max. with heater).
<b>Environmental data</b>	
Operating temperature range	-25°C to +50°C (-13°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> <li>EN 61000-6-2 (Immunity)</li> <li>EN 61000-6-3 (Emission)</li> <li>FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 66 (IEC 60529)
Bump	5 g, 11 ms (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
<b>Physical data</b>	
Weight	18.1 kg (40.0 lb.)
Size (L × W × H)	460 × 467 × 326 mm (18.1 × 18.4 × 12.8 in.)
Base mounting	
Housing material	Aluminum
<b>Shipping information</b>	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Pan &amp; tilt with infrared camera including lens and visual camera</li> <li>FLIR Sensors Manager download card</li> <li>Lens cap</li> <li>Printed documentation</li> <li>Small accessories kit</li> <li>User documentation CD-ROM</li> </ul>
Packaging, weight	
Packaging, size	671 × 564 × 464 mm (26.4 × 22.2 × 18.3 in.)
EAN-13	7332558008973
UPC-12	845188009519
Country of origin	Sweden

**Supplies & accessories:**

- T197000; High temp. option +1200°C/+2192°F for FLIR T/B2xx to T/B4xx and A3xx, A3xxf, A3xxpt, A3xxsc series
- 4119468; ADAPTER PLATE - PT-SERIES
- 223-0017-00; JOYSTICK ASSY, NEXUS CONSOLE
- 500-0461-00; PEDESTAL MOUNT ASSY - PT-SERIES
- 500-0509-00; POLE ADAPTER - PT-SERIES
- 4124857; POWER SUPPLY ASSY, 24VAC - PT-series
- 500-0460-00; WALL MOUNT ASSY - PT-SERIES



---

**P/N: 60902-1105**

© 2015, FLIR Systems, Inc.  
#60902-1105; r. 24652; en-US

- 324-0010-00; Hard case - PT-SERIES
- 4130235; FLIR Sensors Manager, pro

## P/N: 60901-1105

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 60901-1105  
Commit: 24652  
Language: en-US  
Modified: 2015-04-10 08:49  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The FLIR A310pt Pan & Tilt is an affordable solution for anyone who needs to solve problems that require built in "smartness" such as analysis and alarm functionality. The FLIR A310pt Pan & Tilt has all the necessary features and functions to build distributed single- or multi-camera solutions to cover large areas to monitor such as in coal pile monitoring and sub-station monitoring using standard Ethernet hardware and software protocols.

The FLIR A310pt precision pan/tilt mechanism gives operators accurate pointing control while providing fully programmable scan patterns, radar slew-to-cue, and slew-to-alarm functionality.

Multi-sensor configurations also include a day/night 36x zoom color CCD camera on the same pan/tilt package.

### Key features:

- Built-in extensive analysis functionality.
- Extensive alarm functionality, as a function of analysis and more.
- H.264, MPEG-4, and MJPEG streaming.
- Built-in web server.
- 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.).
- Composite video output.
- Precise pan/tilt mechanism.
- Daylight camera.
- IP66 rated.
- IP control: FLIR PT series cameras can be integrated into any existing TCP/IP network and controlled using a personal computer.
- Serial control interface, use Pelco D or Bosch commands over RS-232, RS-422, or RS-485 to remotely control the FLIR A310 pt.
- Multi-camera software: FLIR Sensors Manager allows users to manage and control a FLIR PT series camera in a TCP/IP network.

### Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	90° × 73°
Minimum focus distance	20 mm (0.79 in.)
Focal length	4 mm (0.157 in.)
Spatial resolution (IFOV)	6.3 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	9 Hz
Focus	Automatic or manual (built in motor)
Zoom	1–8× continuous, digital, interpolating zooming on images

### Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm

**P/N: 60901-1105**

© 2015, FLIR Systems, Inc.  
#60901-1105; r. 24652; en-US

<b>Detector data</b>	
Detector pitch	25 µm
Detector time constant	Typical 12 ms
<b>Measurement</b>	
Object temperature range	<ul style="list-style-type: none"> <li>• -20 to +120°C (-4 to +248°F)</li> <li>• 0 to +350°C (+32 to +662°F)</li> </ul>
Accuracy	±4°C (±7.2°F) or ±4% of reading
<b>Measurement analysis</b>	
Spotmeter	10
Area	10 boxes with max./min./average/position
Isotherm	1 with above/below/interval
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global and individual object parameters
<b>Alarm</b>	
Alarm functions	6 automatic alarms on any selected measurement function, camera temperature
<b>Set-up</b>	
Color palettes	Color palettes (BW, BW inv, Iron, Rain)
Set-up commands	Date/time, Temperature (°C/°F)
<b>Imaging and optical data (visual camera)</b>	
Field of view (FOV)	57.8° (H) to 1.7° (H)
Focal length	3.4 mm (wide) to 122.4 mm (tele)
F-number	1.6 to 4.5
Focus	Automatic or manual (built in motor)
Optical Zoom	36× continuous
Electronic Zoom	12× continuous, digital, interpolating
<b>Detector data (visual camera)</b>	
Focal plane array (FPA)	1/4" Exview HAD CCD
Effective pixels	380.000
<b>Technical specification (pan &amp; tilt)</b>	
Azimuth Range	Az velocity 360° continuous, 0.1 to 60°/sec max
Elevation Range	El velocity ± 45°, 0.1 to 30°/sec. max
Programmable presets	128
Automatic heaters	Clears window from ice. Switched on at +4°C (39°F). Switched off at +15°C (59°F).
<b>Ethernet</b>	
Ethernet	Control, result and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	

**P/N: 60901-1105**

© 2015, FLIR Systems, Inc.  
#60901-1105; r. 24652; en-US

<b>Ethernet</b>	
Ethernet, video streaming	Two independent channels for each camera - MPEG-4, H.264, or M-JPEG
Ethernet, protocols	Ethernet/IP, Modbus TCP, TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP
<b>Composite video</b>	
Video out	Composite video output, PAL compatible
Video, standard	CVBS (ITU-R-BT.470 PAL)
<b>Power system</b>	
Power	24 VAC (21-30 VAC; 24 VAC: 215 VA max. with heater) or 24 VDC (21-30 VDC; 24 VDC: 195 W max. with heater).
<b>Environmental data</b>	
Operating temperature range	-25°C to +50°C (-13°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> <li>EN 61000-6-2 (Immunity)</li> <li>EN 61000-6-3 (Emission)</li> <li>FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 66 (IEC 60529)
Bump	5 g, 11 ms (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
<b>Physical data</b>	
Weight	18.1 kg (40.0 lb.)
Size (L × W × H)	460 × 467 × 326 mm (18.1 × 18.4 × 12.8 in.)
Base mounting	
Housing material	Aluminum
<b>Shipping information</b>	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Pan &amp; tilt with infrared camera including lens and visual camera</li> <li>FLIR Sensors Manager download card</li> <li>Lens cap</li> <li>Printed documentation</li> <li>Small accessories kit</li> <li>User documentation CD-ROM</li> </ul>
Packaging, weight	
Packaging, size	671 × 564 × 464 mm (26.4 × 22.2 × 18.3 in.)
EAN-13	7332558008980
UPC-12	845188009526
Country of origin	Sweden

**Supplies & accessories:**

- T197000; High temp. option +1200°C/+2192°F for FLIR T/B2xx to T/B4xx and A3xx, A3xxf, A3xxpt, A3xxsc series
- 4119468; ADAPTER PLATE - PT-SERIES
- 223-0017-00; JOYSTICK ASSY, NEXUS CONSOLE
- 500-0461-00; PEDESTAL MOUNT ASSY - PT-SERIES
- 500-0509-00; POLE ADAPTER - PT-SERIES
- 4124857; POWER SUPPLY ASSY, 24VAC - PT-series
- 500-0460-00; WALL MOUNT ASSY - PT-SERIES



---

**P/N: 60901-1105**

© 2015, FLIR Systems, Inc.  
#60901-1105; r. 24652; en-US

- 324-0010-00; Hard case - PT-SERIES
- 4130235; FLIR Sensors Manager, pro



## P/N: 61002-1105

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 61002-1105  
Commit: 24652  
Language: en-US  
Modified: 2015-04-10 08:49  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The FLIR A310pt Pan & Tilt is an affordable solution for anyone who needs to solve problems that require built in "smartness" such as analysis and alarm functionality. The FLIR A310pt Pan & Tilt has all the necessary features and functions to build distributed single- or multi-camera solutions to cover large areas to monitor such as in coal pile monitoring and sub-station monitoring using standard Ethernet hardware and software protocols.

The FLIR A310pt precision pan/tilt mechanism gives operators accurate pointing control while providing fully programmable scan patterns, radar slew-to-cue, and slew-to-alarm functionality.

Multi-sensor configurations also include a day/night 36x zoom color CCD camera on the same pan/tilt package.

### Key features:

- Built-in extensive analysis functionality.
- Extensive alarm functionality, as a function of analysis and more.
- H.264, MPEG-4, and MJPEG streaming.
- Built-in web server.
- 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.).
- Composite video output.
- Precise pan/tilt mechanism.
- Daylight camera.
- IP66 rated.
- IP control: FLIR PT series cameras can be integrated into any existing TCP/IP network and controlled using a personal computer.
- Serial control interface, use Pelco D or Bosch commands over RS-232, RS-422, or RS-485 to remotely control the FLIR A310 pt.
- Multi-camera software: FLIR Sensors Manager allows users to manage and control a FLIR PT series camera in a TCP/IP network.

### Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	90° × 73°
Minimum focus distance	20 mm (0.79 in.)
Focal length	4 mm (0.157 in.)
Spatial resolution (IFOV)	6.3 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	30 Hz
Focus	Automatic or manual (built in motor)
Zoom	1–8× continuous, digital, interpolating zooming on images

### Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm

**P/N: 61002-1105**

© 2015, FLIR Systems, Inc.  
#61002-1105; r. 24652; en-US

<b>Detector data</b>	
Detector pitch	25 µm
Detector time constant	Typical 12 ms
<b>Measurement</b>	
Object temperature range	<ul style="list-style-type: none"> <li>• -20 to +120°C (-4 to +248°F)</li> <li>• 0 to +350°C (+32 to +662°F)</li> </ul>
Accuracy	±4°C (±7.2°F) or ±4% of reading
<b>Measurement analysis</b>	
Spotmeter	10
Area	10 boxes with max./min./average/position
Isotherm	1 with above/below/interval
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global and individual object parameters
<b>Alarm</b>	
Alarm functions	6 automatic alarms on any selected measurement function, camera temperature
<b>Set-up</b>	
Color palettes	Color palettes (BW, BW inv, Iron, Rain)
Set-up commands	Date/time, Temperature (°C/°F)
<b>Imaging and optical data (visual camera)</b>	
Field of view (FOV)	57.8° (H) to 1.7° (H)
Focal length	3.4 mm (wide) to 122.4 mm (tele)
F-number	1.6 to 4.5
Focus	Automatic or manual (built in motor)
Optical Zoom	36× continuous
Electronic Zoom	12× continuous, digital, interpolating
<b>Detector data (visual camera)</b>	
Focal plane array (FPA)	1/4" Exview HAD CCD
Effective pixels	380.000
<b>Technical specification (pan &amp; tilt)</b>	
Azimuth Range	Az velocity 360° continuous, 0.1 to 60°/sec max
Elevation Range	El velocity ± 45°, 0.1 to 30°/sec. max
Programmable presets	128
Automatic heaters	Clears window from ice. Switched on at +4°C (39°F). Switched off at +15°C (59°F).
<b>Ethernet</b>	
Ethernet	Control, result and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	

**P/N: 61002-1105**

© 2015, FLIR Systems, Inc.  
#61002-1105; r. 24652; en-US

<b>Ethernet</b>	
Ethernet, video streaming	Two independent channels for each camera - MPEG-4, H.264, or M-JPEG
Ethernet, protocols	Ethernet/IP, Modbus TCP, TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP
<b>Composite video</b>	
Video out	Composite video output, NTSC compatible
Video, standard	CVBS (SMPTE 170M NTSC)
<b>Power system</b>	
Power	24 VAC (21-30 VAC; 24 VAC: 215 VA max. with heater) or 24 VDC (21-30 VDC; 24 VDC: 195 W max. with heater).
<b>Environmental data</b>	
Operating temperature range	-25°C to +50°C (-13°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> <li>EN 61000-6-2 (Immunity)</li> <li>EN 61000-6-3 (Emission)</li> <li>FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 66 (IEC 60529)
Bump	5 g, 11 ms (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
<b>Physical data</b>	
Weight	18.1 kg (40.0 lb.)
Size (L × W × H)	460 × 467 × 326 mm (18.1 × 18.4 × 12.8 in.)
Base mounting	
Housing material	Aluminum
<b>Shipping information</b>	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Pan &amp; tilt with infrared camera including lens and visual camera</li> <li>FLIR Sensors Manager download card</li> <li>Lens cap</li> <li>Printed documentation</li> <li>Small accessories kit</li> <li>User documentation CD-ROM</li> </ul>
Packaging, weight	
Packaging, size	671 × 564 × 464 mm (26.4 × 22.2 × 18.3 in.)
EAN-13	7332558008959
UPC-12	845188009496
Country of origin	Sweden

**Supplies & accessories:**

- T197000; High temp. option +1200°C/+2192°F for FLIR T/B2xx to T/B4xx and A3xx, A3xxf, A3xxpt, A3xxsc series
- 4119468; ADAPTER PLATE - PT-SERIES
- 223-0017-00; JOYSTICK ASSY, NEXUS CONSOLE
- 500-0461-00; PEDESTAL MOUNT ASSY - PT-SERIES
- 500-0509-00; POLE ADAPTER - PT-SERIES
- 4124857; POWER SUPPLY ASSY, 24VAC - PT-series
- 500-0460-00; WALL MOUNT ASSY - PT-SERIES



---

**P/N: 61002-1105**

© 2015, FLIR Systems, Inc.  
#61002-1105; r. 24652; en-US

- 324-0010-00; Hard case - PT-SERIES
- 4130235; FLIR Sensors Manager, pro

## P/N: 61001-1105

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 61001-1105  
Commit: 24652  
Language: en-US  
Modified: 2015-04-10 08:49  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The FLIR A310pt Pan & Tilt is an affordable solution for anyone who needs to solve problems that require built in "smartness" such as analysis and alarm functionality. The FLIR A310pt Pan & Tilt has all the necessary features and functions to build distributed single- or multi-camera solutions to cover large areas to monitor such as in coal pile monitoring and sub-station monitoring using standard Ethernet hardware and software protocols.

The FLIR A310pt precision pan/tilt mechanism gives operators accurate pointing control while providing fully programmable scan patterns, radar slew-to-cue, and slew-to-alarm functionality.

Multi-sensor configurations also include a day/night 36x zoom color CCD camera on the same pan/tilt package.

### Key features:

- Built-in extensive analysis functionality.
- Extensive alarm functionality, as a function of analysis and more.
- H.264, MPEG-4, and MJPEG streaming.
- Built-in web server.
- 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.).
- Composite video output.
- Precise pan/tilt mechanism.
- Daylight camera.
- IP66 rated.
- IP control: FLIR PT series cameras can be integrated into any existing TCP/IP network and controlled using a personal computer.
- Serial control interface, use Pelco D or Bosch commands over RS-232, RS-422, or RS-485 to remotely control the FLIR A310 pt.
- Multi-camera software: FLIR Sensors Manager allows users to manage and control a FLIR PT series camera in a TCP/IP network.

### Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	90° × 73°
Minimum focus distance	20 mm (0.79 in.)
Focal length	4 mm (0.157 in.)
Spatial resolution (IFOV)	6.3 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	30 Hz
Focus	Automatic or manual (built in motor)
Zoom	1–8x continuous, digital, interpolating zooming on images

### Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm

**P/N: 61001-1105**

© 2015, FLIR Systems, Inc.  
#61001-1105; r. 24652; en-US

<b>Detector data</b>	
Detector pitch	25 µm
Detector time constant	Typical 12 ms
<b>Measurement</b>	
Object temperature range	<ul style="list-style-type: none"> <li>• -20 to +120°C (-4 to +248°F)</li> <li>• 0 to +350°C (+32 to +662°F)</li> </ul>
Accuracy	±4°C (±7.2°F) or ±4% of reading
<b>Measurement analysis</b>	
Spotmeter	10
Area	10 boxes with max./min./average/position
Isotherm	1 with above/below/interval
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global and individual object parameters
<b>Alarm</b>	
Alarm functions	6 automatic alarms on any selected measurement function, camera temperature
<b>Set-up</b>	
Color palettes	Color palettes (BW, BW inv, Iron, Rain)
Set-up commands	Date/time, Temperature (°C/°F)
<b>Imaging and optical data (visual camera)</b>	
Field of view (FOV)	57.8° (H) to 1.7° (H)
Focal length	3.4 mm (wide) to 122.4 mm (tele)
F-number	1.6 to 4.5
Focus	Automatic or manual (built in motor)
Optical Zoom	36× continuous
Electronic Zoom	12× continuous, digital, interpolating
<b>Detector data (visual camera)</b>	
Focal plane array (FPA)	1/4" Exview HAD CCD
Effective pixels	380.000
<b>Technical specification (pan &amp; tilt)</b>	
Azimuth Range	Az velocity 360° continuous, 0.1 to 60°/sec max
Elevation Range	El velocity ± 45°, 0.1 to 30°/sec. max
Programmable presets	128
Automatic heaters	Clears window from ice. Switched on at +4°C (39°F). Switched off at +15°C (59°F).
<b>Ethernet</b>	
Ethernet	Control, result and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	

**P/N: 61001-1105**

 © 2015, FLIR Systems, Inc.  
 #61001-1105; r. 24652; en-US

<b>Ethernet</b>	
Ethernet, video streaming	Two independent channels for each camera - MPEG-4, H.264, or M-JPEG
Ethernet, protocols	Ethernet/IP, Modbus TCP, TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP
<b>Composite video</b>	
Video out	Composite video output, PAL compatible
Video, standard	CVBS (ITU-R-BT.470 PAL)
<b>Power system</b>	
Power	24 VAC (21-30 VAC; 24 VAC: 215 VA max. with heater) or 24 VDC (21-30 VDC; 24 VDC: 195 W max. with heater).
<b>Environmental data</b>	
Operating temperature range	-25°C to +50°C (-13°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> <li>• EN 61000-6-2 (Immunity)</li> <li>• EN 61000-6-3 (Emission)</li> <li>• FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 66 (IEC 60529)
Bump	5 g, 11 ms (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
<b>Physical data</b>	
Weight	18.1 kg (40.0 lb.)
Size (L × W × H)	460 × 467 × 326 mm (18.1 × 18.4 × 12.8 in.)
Base mounting	
Housing material	Aluminum
<b>Shipping information</b>	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Pan &amp; tilt with infrared camera including lens and visual camera</li> <li>• FLIR Sensors Manager download card</li> <li>• Lens cap</li> <li>• Printed documentation</li> <li>• Small accessories kit</li> <li>• User documentation CD-ROM</li> </ul>
Packaging, weight	
Packaging, size	671 × 564 × 464 mm (26.4 × 22.2 × 18.3 in.)
EAN-13	7332558008966
UPC-12	845188009502
Country of origin	Sweden

**Supplies & accessories:**

- T197000; High temp. option +1200°C/+2192°F for FLIR T/B2xx to T/B4xx and A3xx, A3xxf, A3xxpt, A3xxsc series
- 4119468; ADAPTER PLATE - PT-SERIES
- 223-0017-00; JOYSTICK ASSY, NEXUS CONSOLE
- 500-0461-00; PEDESTAL MOUNT ASSY - PT-SERIES
- 500-0509-00; POLE ADAPTER - PT-SERIES
- 4124857; POWER SUPPLY ASSY, 24VAC - PT-series
- 500-0460-00; WALL MOUNT ASSY - PT-SERIES



---

**P/N: 61001-1105**

© 2015, FLIR Systems, Inc.  
#61001-1105; r. 24652; en-US

- 324-0010-00; Hard case - PT-SERIES
- 4130235; FLIR Sensors Manager, pro



# FLIR A6xx series

---

## P/N: 55001-0101

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 55001-0101  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The FLIR A615 has features and functions that make it the natural choice for anyone who uses PC software to solve problems and needs 640 × 480 pixel resolution. Among its main features are GigE Vision and GenICam compliance, which makes it plug-and-play when used with software packages such as IMAQ Vision and Halcon.

The camera is equipped with a 15° lens.

#### Key features:

- Affordable.
- GigE compliant.
- GenICam compliant.
- Trigg/synchronization/GPIO.
- 16-bit 640 × 480 pixel images at 50 Hz, signal, temperature linear, and radiometric.
- Windowing mode: 640 × 240 pixels at 100 Hz or 640 × 120 pixels at 200 Hz.
- Compliant with any software that supports GenICam, including National Instruments IMAQ Vision and Stemmers Common Vision Blox.
- Open and well-described TCP/IP protocol for control and set-up.

#### Typical applications:

- High-end infrared machine vision that needs temperature measurement.
- Slag detection.
- Food processing.
- Electronics testing.
- Power resistor testing.
- Automotive.

### Imaging and optical data

IR resolution	640 × 480 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	15° × 11° (19° diagonal)
Minimum focus distance	0.50 m (1.64 ft.)
Focal length	41.3 mm (1.63 in.)
Spatial resolution (IFOV)	0.41 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	50 Hz (100/200 Hz with windowing)
Focus	Automatic or manual (built in motor)

### Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm
Detector time constant	Typical 8 ms

### Measurement

Object temperature range	<ul style="list-style-type: none"> <li>• -40°C to +150°C (-40°F to +302°F)</li> <li>• 100 to +650°C (+212 to +1202°F)</li> <li>• 300 to +2000°C (+572 to +3632°F)</li> </ul>
Accuracy	±2°C (±3.6°F) or ±2% of reading

P/N: 55001-0101

© 2015, FLIR Systems, Inc.  
#55001-0101; r. 24597; en-US

Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters

USB	
USB	<ul style="list-style-type: none"> <li>Control and image</li> </ul>
USB, standard	USB 2 HS
USB, connector type	<ul style="list-style-type: none"> <li>USB Mini-B</li> </ul>
USB, communication	TCP/IP socket-based FLIR proprietary
USB, image streaming	16-bit 640 × 480 pixels @ 25 Hz <ul style="list-style-type: none"> <li>Signal linear</li> <li>Temperature linear</li> <li>Radiometric</li> </ul>
USB, protocols	TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary and GenICam protocol
Ethernet, image streaming	16-bit 640 × 480 pixels @ 50 Hz 16-bit 640 × 240 pixels @ 100 Hz 16-bit 640 × 120 pixels @ 200 Hz <ul style="list-style-type: none"> <li>Signal linear</li> <li>Temperature linear</li> <li>Radiometric</li> </ul> GigE Vision and GenICam compatible
Ethernet, protocols	TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Digital input/output	
Digital input, purpose	Image tag (start, stop, general), Image flow control, (stream on/off), Input ext. device (programmatically read)
Digital input	2 opto-isolated, 0–1.5 V = low, 3–25 V = high
Digital output, purpose	Output to ext. device (programmatically set)
Digital output	2 opto-isolated, ON = supply (max. 100 mA), OFF = open
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	6–24 VDC, max. 200 mA
Digital I/O, connector type	6-pole jackable screw terminal

**P/N: 55001-0101**

© 2015, FLIR Systems, Inc.  
#55001-0101; r. 24597; en-US

<b>Power system</b>	
External power operation	12/24 VDC, 24 W absolute max.
External power, connector type	2-pole jackable screw terminal
Voltage	Allowed range 10–30 VDC

<b>Environmental data</b>	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> <li>• EN 61000-6-2:2001 (Immunity)</li> <li>• EN 61000-6-3:2001 (Emission)</li> <li>• FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 30 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

<b>Physical data</b>	
Weight	0.92 kg (2.03 lb.)
Camera size (L × W × H)	222 × 73 × 75 mm (8.7 × 2.9 × 3.0 in.)
Camera size, excl. lens (L × W × H)	203 × 73 × 75 mm (8.0 × 2.9 × 3.0 in.)
Tripod mounting	UNC ¼"-20 (on three sides)
Base mounting	2 × M4 thread mounting holes (on three sides)
Housing material	Aluminum
Comments to physical data	Outline dimensional drawings and STEP files can be found at <a href="http://support.flir.com">http://support.flir.com</a>

<b>Shipping information</b>	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Ethernet cable</li> <li>• FLIR Tools download card</li> <li>• Mains cable</li> <li>• Power cable, pig-tailed</li> <li>• Power supply</li> <li>• Printed documentation</li> <li>• USB cable</li> <li>• User documentation CD-ROM</li> <li>• Utility CD-ROM</li> </ul>
Packaging, weight	
Packaging, size	360 × 180 × 550 mm (14.2 × 7.1 × 21.7 in.)
EAN-13	7332558003244
UPC-12	845188002725
Country of origin	Sweden

**Supplies & accessories:**

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198065; IR lens, f=6.5 mm (80°) with case
- T198165; IR lens, f=88.9 mm (7°) with case and support for A6xx/A6xxsc
- 1910400; Power cord EU
- 1910401; Power cord US
- 1910402; Power cord UK
- T910922; Power supply, incl. multi plugs, for A3xx, A3xxsc, A6xx and A6xxsc
- T911182; Power supply for A3xx f, IP66
- 1910423; USB cable Std A <-> Mini-B
- T951004ACC; Ethernet cable CAT-6, 2m/6.6 ft.



---

**P/N: 55001-0101**

© 2015, FLIR Systems, Inc.  
#55001-0101; r. 24597; en-US

- 1910586ACC; Power cable, pigtailed
- T197871ACC; Hard transport case for A3xx/A6xx series
- T197870ACC; Cardboard box for A3xx/A6xx series
- T126889ACC; Filter holder for A6xx lenses
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

## P/N: 55001-0102

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 55001-0102  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The FLIR A615 has features and functions that make it the natural choice for anyone who uses PC software to solve problems and needs 640 × 480 pixel resolution. Among its main features are GigE Vision and GenICam compliance, which makes it plug-and-play when used with software packages such as IMAQ Vision and Halcon.

The camera is equipped with the standard 25° lens.

#### Key features:

- Affordable.
- GigE compliant.
- GenICam compliant.
- Trigg/synchronization/GPIO.
- 16-bit 640 × 480 pixel images at 50 Hz, signal, temperature linear, and radiometric.
- Windowing mode: 640 × 240 pixels at 100 Hz or 640 × 120 pixels at 200 Hz.
- Compliant with any software that supports GenICam, including National Instruments IMAQ Vision and Stemmers Common Vision Blox.
- Open and well-described TCP/IP protocol for control and set-up.

#### Typical applications:

- High-end infrared machine vision that requires temperature measurement
- Slag detection
- Food processing
- Electronics testing
- Power resistor testing
- Automotive

### Imaging and optical data

IR resolution	640 × 480 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	25° × 19° (31° diagonal)
Minimum focus distance	0.25 m (0.82 ft.)
Focal length	24.6 mm (0.97 in.)
Spatial resolution (IFOV)	0.68 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	50 Hz (100/200 Hz with windowing)
Focus	Automatic or manual (built in motor)

### Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm
Detector time constant	Typical 8 ms

### Measurement

Object temperature range	<ul style="list-style-type: none"> <li>• -40°C to +150°C (-40°F to +302°F)</li> <li>• 100 to +650°C (+212 to +1202°F)</li> <li>• 300 to +2000°C (+572 to +3632°F)</li> </ul>
Accuracy	±2°C (±3.6°F) or ±2% of reading

P/N: 55001-0102

© 2015, FLIR Systems, Inc.  
#55001-0102; r. 24597; en-US

Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters

USB	
USB	<ul style="list-style-type: none"> <li>Control and image</li> </ul>
USB, standard	USB 2 HS
USB, connector type	<ul style="list-style-type: none"> <li>USB Mini-B</li> </ul>
USB, communication	TCP/IP socket-based FLIR proprietary
USB, image streaming	16-bit 640 × 480 pixels @ 25 Hz <ul style="list-style-type: none"> <li>Signal linear</li> <li>Temperature linear</li> <li>Radiometric</li> </ul>
USB, protocols	TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary and GenICam protocol
Ethernet, image streaming	16-bit 640 × 480 pixels @ 50 Hz 16-bit 640 × 240 pixels @ 100 Hz 16-bit 640 × 120 pixels @ 200 Hz <ul style="list-style-type: none"> <li>Signal linear</li> <li>Temperature linear</li> <li>Radiometric</li> </ul> GigE Vision and GenICam compatible
Ethernet, protocols	TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Digital input/output	
Digital input, purpose	Image tag (start, stop, general), Image flow control, (stream on/off), Input ext. device (programmatically read)
Digital input	2 opto-isolated, 0–1.5 V = low, 3–25 V = high
Digital output, purpose	Output to ext. device (programmatically set)
Digital output	2 opto-isolated, ON = supply (max. 100 mA), OFF = open
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	6–24 VDC, max. 200 mA
Digital I/O, connector type	6-pole jackable screw terminal

**P/N: 55001-0102**

© 2015, FLIR Systems, Inc.  
#55001-0102; r. 24597; en-US

<b>Power system</b>	
External power operation	12/24 VDC, 24 W absolute max.
External power, connector type	2-pole jackable screw terminal
Voltage	Allowed range 10–30 VDC

<b>Environmental data</b>	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> <li>• EN 61000-6-2:2001 (Immunity)</li> <li>• EN 61000-6-3:2001 (Emission)</li> <li>• FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 30 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

<b>Physical data</b>	
Weight	0.90 kg (1.98 lb.)
Camera size (L × W × H)	216 × 73 × 75 mm (8.5 × 2.9 × 3.0 in.)
Camera size, excl. lens (L × W × H)	203 × 73 × 75 mm (8.0 × 2.9 × 3.0 in.)
Tripod mounting	UNC ¼"-20 (on three sides)
Base mounting	2 × M4 thread mounting holes (on three sides)
Housing material	Aluminum
Comments to physical data	Outline dimensional drawings and STEP files can be found at <a href="http://support.flir.com">http://support.flir.com</a>

<b>Shipping information</b>	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Ethernet cable</li> <li>• FLIR Tools download card</li> <li>• Mains cable</li> <li>• Power cable, pig-tailed</li> <li>• Power supply</li> <li>• Printed</li> <li>• Printed documentation</li> <li>• USB cable</li> <li>• User documentation CD-ROM</li> <li>• Utility CD-ROM</li> </ul>
Packaging, weight	
Packaging, size	360 × 180 × 550 mm (14.2 × 7.1 × 21.7 in.)
EAN-13	7332558003251
UPC-12	845188002732
Country of origin	Sweden

**Supplies & accessories:**

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9× (50 µm) with case
- T198060; Close-up IR lens, 5.8× (100 µm) with case
- T198065; IR lens, f=6.5 mm (80°) with case
- T198165; IR lens, f=88.9 mm (7°) with case and support for A6xx/A6xxsc
- T198066; Close-up IR lens, 1.5× (25 µm) with case
- 1910400; Power cord EU
- 1910401; Power cord US
- 1910402; Power cord UK



---

**P/N: 55001-0102**

© 2015, FLIR Systems, Inc.  
#55001-0102; r. 24597; en-US

- T910922; Power supply, incl. multi plugs, for A3xx, A3xxsc, A6xx and A6xxsc
- T911182; Power supply for A3xx f, IP66
- 1910423; USB cable Std A <-> Mini-B
- T951004ACC; Ethernet cable CAT-6, 2m/6.6 ft.
- 1910586ACC; Power cable, pigtailed
- T197871ACC; Hard transport case for A3xx/A6xx series
- T197870ACC; Cardboard box for A3xx/A6xx series
- T126889ACC; Filter holder for A6xx lenses
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

## P/N: 55001-0103

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 55001-0103  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The FLIR A615 has features and functions that make it the natural choice for anyone who uses PC software to solve problems and needs 640 × 480 pixel resolution. Among its main features are GigE Vision and GenICam compliance, which makes it plug-and-play when used with software packages such as IMAQ Vision and Halcon.

The camera is equipped with a 45° lens.

#### Key features:

- Affordable.
- GigE compliant.
- GenICam compliant.
- Trigg/synchronization/GPIO.
- 16-bit 640 × 480 pixel images at 50 Hz, signal, temperature linear, and radiometric.
- Windowing mode: 640 × 240 pixels at 100 Hz or 640 × 120 pixels at 200 Hz.
- Compliant with any software that supports GenICam, including National Instruments IMAQ Vision and Stemmers Common Vision Blox.
- Open and well-described TCP/IP protocol for control and set-up.

#### Typical applications:

- High-end infrared machine vision that requires temperature measurement.
- Slag detection.
- Food processing.
- Electronics testing.
- Power resistor testing.
- Automotive.

### Imaging and optical data

IR resolution	640 × 480 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	45° × 34° (55° diagonal)
Minimum focus distance	0.15 m (0.49 ft.)
Focal length	13.1 mm (0.52 in.)
Spatial resolution (IFOV)	1.23 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	50 Hz (100/200 Hz with windowing)
Focus	Automatic or manual (built in motor)

### Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm
Detector time constant	Typical 8 ms

### Measurement

Object temperature range	<ul style="list-style-type: none"> <li>• -40°C to +150°C (-40°F to +302°F)</li> <li>• 100 to +650°C (+212 to +1202°F)</li> <li>• 300 to +2000°C (+572 to +3632°F)</li> </ul>
Accuracy	±2°C (±3.6°F) or ±2% of reading

**P/N: 55001-0103**

© 2015, FLIR Systems, Inc.  
#55001-0103; r. 24597; en-US

Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters
USB	
USB	<ul style="list-style-type: none"> <li>Control and image</li> </ul>
USB, standard	USB 2 HS
USB, connector type	<ul style="list-style-type: none"> <li>USB Mini-B</li> </ul>
USB, communication	TCP/IP socket-based FLIR proprietary
USB, image streaming	16-bit 640 × 480 pixels @ 25 Hz <ul style="list-style-type: none"> <li>Signal linear</li> <li>Temperature linear</li> <li>Radiometric</li> </ul>
USB, protocols	TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP
Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary and GenICam protocol
Ethernet, image streaming	16-bit 640 × 480 pixels @ 50 Hz 16-bit 640 × 240 pixels @ 100 Hz 16-bit 640 × 120 pixels @ 200 Hz <ul style="list-style-type: none"> <li>Signal linear</li> <li>Temperature linear</li> <li>Radiometric</li> </ul> GigE Vision and GenICam compatible
Ethernet, protocols	TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP
Digital input/output	
Digital input, purpose	Image tag (start, stop, general), Image flow control, (stream on/off), Input ext. device (programmatically read)
Digital input	2 opto-isolated, 0–1.5 V = low, 3–25 V = high
Digital output, purpose	Output to ext. device (programmatically set)
Digital output	2 opto-isolated, ON = supply (max. 100 mA), OFF = open
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	6–24 VDC, max. 200 mA
Digital I/O, connector type	6-pole jackable screw terminal

**P/N: 55001-0103**

© 2015, FLIR Systems, Inc.  
#55001-0103; r. 24597; en-US

<b>Power system</b>	
External power operation	12/24 VDC, 24 W absolute max.
External power, connector type	2-pole jackable screw terminal
Voltage	Allowed range 10–30 VDC

<b>Environmental data</b>	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> <li>• EN 61000-6-2:2001 (Immunity)</li> <li>• EN 61000-6-3:2001 (Emission)</li> <li>• FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 30 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

<b>Physical data</b>	
Weight	0.94 kg (2.07 lb.)
Camera size (L × W × H)	225 × 73 × 75 mm (8.8 × 2.9 × 3.0 in.)
Camera size, excl. lens (L × W × H)	203 × 73 × 75 mm (8.0 × 2.9 × 3.0 in.)
Tripod mounting	UNC ¼"-20 (on three sides)
Base mounting	2 × M4 thread mounting holes (on three sides)
Housing material	Aluminum
Comments to physical data	Outline dimensional drawings and STEP files can be found at <a href="http://support.flir.com">http://support.flir.com</a>

<b>Shipping information</b>	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Ethernet cable</li> <li>• FLIR Tools download card</li> <li>• Mains cable</li> <li>• Power cable, pig-tailed</li> <li>• Power supply</li> <li>• Printed documentation</li> <li>• USB cable</li> <li>• User documentation CD-ROM</li> <li>• Utility CD-ROM</li> </ul>
Packaging, weight	
Packaging, size	360 × 180 × 550 mm (14.2 × 7.1 × 21.7 in.)
EAN-13	7332558003268
UPC-12	845188002749
Country of origin	Sweden

**Supplies & accessories:**

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198065; IR lens, f=6.5 mm (80°) with case
- T198165; IR lens, f=88.9 mm (7°) with case and support for A6xx/A6xxsc
- T198066; Close-up IR lens, 1.5× (25 µm) with case
- 1910400; Power cord EU
- 1910401; Power cord US
- 1910402; Power cord UK
- T910922; Power supply, incl. multi plugs, for A3xx, A3xxsc, A6xx and A6xxsc
- T911182; Power supply for A3xx f, IP66
- 1910423; USB cable Std A <-> Mini-B



---

**P/N: 55001-0103**

© 2015, FLIR Systems, Inc.  
#55001-0103; r. 24597; en-US

- T951004ACC; Ethernet cable CAT-6, 2m/6.6 ft.
- 1910586ACC; Power cable, pigtailed
- T197871ACC; Hard transport case for A3xx/A6xx series
- T197870ACC; Cardboard box for A3xx/A6xx series
- T126889ACC; Filter holder for A6xx lenses
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

## P/N: 55001-0104

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 55001-0104  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The FLIR A615 has features and functions that make it the natural choice for anyone who uses PC software to solve problems and needs 640 × 480 pixel resolution. Among its main features are GigE Vision and GenICam compliance, which makes it plug-and-play when used with software packages such as IMAQ Vision and Halcon.

The camera is equipped with a 7° lens.

#### Key features:

- Affordable.
- GigE compliant.
- GenICam compliant.
- Trigg/synchronization/GPIO.
- 16-bit 640 × 480 pixel images at 50 Hz, signal, temperature linear, and radiometric.
- Windowing mode: 640 × 240 pixels at 100 Hz or 640 × 120 pixels at 200 Hz.
- Compliant with any software that supports GenICam, including National Instruments IMAQ Vision and Stemmers Common Vision Blox.
- Open and well-described TCP/IP protocol for control and set-up.

#### Typical applications:

- High-end infrared machine vision that requires temperature measurement.
- Slag detection.
- Food processing.
- Electronics testing.
- Power resistor testing.
- Automotive.

### Imaging and optical data

IR resolution	640 × 480 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	7° × 5.3° (8.7° diagonally)
Minimum focus distance	2.0 m (6.6 ft.)
Focal length	88.9 mm (3.5 in.)
Spatial resolution (IFOV)	0.19 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	50 Hz (100/200 Hz with windowing)
Focus	Automatic or manual (built in motor)

### Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm
Detector time constant	Typical 8 ms

P/N: 55001-0104

© 2015, FLIR Systems, Inc.  
#55001-0104; r. 24597; en-US

Measurement	
Object temperature range	<ul style="list-style-type: none"> <li>–40°C to +150°C (–40°F to +302°F)</li> <li>100 to +650°C (+212 to +1202°F)</li> <li>300 to +2000°C (+572 to +3632°F)</li> </ul>
Accuracy	±2°C (±3.6°F) or ±2% of reading

Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters

USB	
USB	<ul style="list-style-type: none"> <li>Control and image</li> </ul>
USB, standard	USB 2 HS
USB, connector type	<ul style="list-style-type: none"> <li>USB Mini-B</li> </ul>
USB, communication	TCP/IP socket-based FLIR proprietary
USB, image streaming	16-bit 640 × 480 pixels @ 25 Hz <ul style="list-style-type: none"> <li>Signal linear</li> <li>Temperature linear</li> <li>Radiometric</li> </ul>
USB, protocols	TCP, UDP, SNMP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary and GenICam protocol
Ethernet, image streaming	16-bit 640 × 480 pixels @ 50 Hz 16-bit 640 × 240 pixels @ 100 Hz 16-bit 640 × 120 pixels @ 200 Hz <ul style="list-style-type: none"> <li>Signal linear</li> <li>Temperature linear</li> <li>Radiometric</li> </ul> GigE Vision and GenICam compatible
Ethernet, protocols	TCP, UDP, SNMP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Digital input/output	
Digital input, purpose	Image tag (start, stop, general), Image flow control, (stream on/off), Input ext. device (programmatically read)
Digital input	2 opto-isolated, 0–1.5 V = low, 3–25 V = high
Digital output, purpose	Output to ext. device (programmatically set)
Digital output	2 opto-isolated, ON = supply (max. 100 mA), OFF = open
Digital I/O, isolation voltage	500 VRMS

**P/N: 55001-0104**

 © 2015, FLIR Systems, Inc.  
 #55001-0104; r. 24597; en-US

Digital input/output	
Digital I/O, supply voltage	6–24 VDC, max. 200 mA
Digital I/O, connector type	6-pole jackable screw terminal
Power system	
External power operation	12/24 VDC, 24 W absolute max.
External power, connector type	2-pole jackable screw terminal
Voltage	Allowed range 10–30 VDC
Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> <li>• EN 61000-6-2:2001 (Immunity)</li> <li>• EN 61000-6-3:2001 (Emission)</li> <li>• FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 30 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Physical data	
Weight	1.61 kg (3.55 lb.)
Camera size (L × W × H)	271 × 126 × 128 mm (10.7 × 5.0 × 5.0 in.)
Camera size, excl. lens (L × W × H)	203 × 73 × 75 mm (8.0 × 2.9 × 3.0 in.)
Tripod mounting	UNC ¼"-20 (on three sides)
Base mounting	2 × M4 thread mounting holes (on three sides)
Housing material	Aluminum
Comments to physical data	Outline dimensional drawings and STEP files can be found at <a href="http://support.flir.com">http://support.flir.com</a>
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Ethernet cable</li> <li>• FLIR Tools download card</li> <li>• Mains cable</li> <li>• Power cable, pig-tailed</li> <li>• Power supply</li> <li>• Printed documentation</li> <li>• USB cable</li> <li>• User documentation CD-ROM</li> <li>• Utility CD-ROM</li> </ul>
Packaging, weight	5.8 kg (12.8 lb.)
Packaging, size	400 × 400 × 540 mm (15.7 × 15.7 × 21.3 in.)
EAN-13	7332558004685
UPC-12	845188004620
Country of origin	Sweden

**Supplies & accessories:**

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198065; IR lens, f=6.5 mm (80°) with case
- T198165; IR lens, f=88.9 mm (7°) with case and support for A6xx/A6xxsc
- 1910400; Power cord EU
- 1910401; Power cord US
- 1910402; Power cord UK



---

**P/N: 55001-0104**

© 2015, FLIR Systems, Inc.  
#55001-0104; r. 24597; en-US

- T910922; Power supply, incl. multi plugs, for A3xx, A3xxsc, A6xx and A6xxsc
- T911182; Power supply for A3xx f, IP66
- 1910423; USB cable Std A <-> Mini-B
- T951004ACC; Ethernet cable CAT-6, 2m/6.6 ft.
- 1910586ACC; Power cable, pigtailed
- T197871ACC; Hard transport case for A3xx/A6xx series
- T197870ACC; Cardboard box for A3xx/A6xx series
- T126889ACC; Filter holder for A6xx lenses
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

## P/N: 55001-0105

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 55001-0105  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The FLIR A615 has features and functions that make it the natural choice for anyone who uses PC software to solve problems and needs 640 × 480 pixel resolution. Among its main features are GigE Vision and GenICam compliance, which makes it plug-and-play when used with software packages such as IMAQ Vision and Halcon.

The camera is equipped with a 80° lens.

#### Key features:

- Affordable.
- GigE compliant.
- GenICam compliant.
- Trigg/synchronization/GPIO.
- 16-bit 640 × 480 pixel images at 50 Hz, signal, temperature linear, and radiometric.
- Windowing mode: 640 × 240 pixels at 100 Hz or 640 × 120 pixels at 200 Hz.
- Compliant with any software that supports GenICam, including National Instruments IMAQ Vision and Stemmers Common Vision Blox.
- Open and well-described TCP/IP protocol for control and set-up.

#### Typical applications:

- High-end infrared machine vision that requires temperature measurement.
- Slag detection.
- Food processing.
- Electronics testing.
- Power resistor testing.
- Automotive.

### Imaging and optical data

IR resolution	640 × 480 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	80° × 64.4° (92.8° diagonal)
Minimum focus distance	65 mm (2.6 in.)
Focal length	6.5 mm (0.26 in.)
Spatial resolution (IFOV)	2.62 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	50 Hz (100/200 Hz with windowing)
Focus	Automatic or manual (built in motor)

### Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm
Detector time constant	Typical 8 ms

### Measurement

Object temperature range	<ul style="list-style-type: none"> <li>• -40°C to +150°C (-40°F to +302°F)</li> <li>• 100 to +650°C (+212 to +1202°F)</li> <li>• 300 to +2000°C (+572 to +3632°F)</li> </ul>
Accuracy	±2°C (±3.6°F) or ±2% of reading

P/N: 55001-0105

© 2015, FLIR Systems, Inc.  
#55001-0105; r. 24597; en-US

Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters
USB	
USB	<ul style="list-style-type: none"> <li>Control and image</li> </ul>
USB, standard	USB 2 HS
USB, connector type	<ul style="list-style-type: none"> <li>USB Mini-B</li> </ul>
USB, communication	TCP/IP socket-based FLIR proprietary
USB, image streaming	16-bit 640 × 480 pixels @ 25 Hz <ul style="list-style-type: none"> <li>Signal linear</li> <li>Temperature linear</li> <li>Radiometric</li> </ul>
USB, protocols	TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP
Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary and GenICam protocol
Ethernet, image streaming	16-bit 640 × 480 pixels @ 50 Hz 16-bit 640 × 240 pixels @ 100 Hz 16-bit 640 × 120 pixels @ 200 Hz <ul style="list-style-type: none"> <li>Signal linear</li> <li>Temperature linear</li> <li>Radiometric</li> </ul> GigE Vision and GenICam compatible
Ethernet, protocols	TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP
Digital input/output	
Digital input, purpose	Image tag (start, stop, general), Image flow control, (stream on/off), Input ext. device (programmatically read)
Digital input	2 opto-isolated, 0–1.5 V = low, 3–25 V = high
Digital output, purpose	Output to ext. device (programmatically set)
Digital output	2 opto-isolated, ON = supply (max. 100 mA), OFF = open
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	6–24 VDC, max. 200 mA
Digital I/O, connector type	6-pole jackable screw terminal

**P/N: 55001-0105**

 © 2015, FLIR Systems, Inc.  
 #55001-0105; r. 24597; en-US

<b>Power system</b>	
External power operation	12/24 VDC, 24 W absolute max.
External power, connector type	2-pole jackable screw terminal
Voltage	Allowed range 10–30 VDC

<b>Environmental data</b>	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> <li>• EN 61000-6-2:2001 (Immunity)</li> <li>• EN 61000-6-3:2001 (Emission)</li> <li>• FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 30 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

<b>Physical data</b>	
Weight	1.17 kg (2.58 lb.)
Camera size (L × W × H)	297 × 73 × 75 mm (11.7 × 2.9 × 3.0 in.)
Camera size, excl. lens (L × W × H)	203 × 73 × 75 mm (8.0 × 2.9 × 3.0 in.)
Tripod mounting	UNC ¼"-20 (on three sides)
Base mounting	2 × M4 thread mounting holes (on three sides)
Housing material	Aluminum
Comments to physical data	Outline dimensional drawings and STEP files can be found at <a href="http://support.flir.com">http://support.flir.com</a>

<b>Shipping information</b>	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Ethernet cable</li> <li>• FLIR Tools download card</li> <li>• Mains cable</li> <li>• Power cable, pig-tailed</li> <li>• Printed documentation</li> <li>• USB cable</li> <li>• User documentation CD-ROM</li> <li>• Utility CD-ROM</li> </ul>
Packaging, weight	3.8 kg (8.4 lb.)
Packaging, size	370 × 190 × 630 mm (14.6 × 7.5 × 24.8 in.)
EAN-13	7332558004760
UPC-12	845188004712
Country of origin	Sweden

**Supplies & accessories:**

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198065; IR lens, f=6.5 mm (80°) with case
- T198165; IR lens, f=88.9 mm (7°) with case and support for A6xx/A6xxsc
- 1910400; Power cord EU
- 1910401; Power cord US
- 1910402; Power cord UK
- T910922; Power supply, incl. multi plugs, for A3xx, A3xxsc, A6xx and A6xxsc
- T911182; Power supply for A3xx f, IP66
- 1910423; USB cable Std A <-> Mini-B
- T951004ACC; Ethernet cable CAT-6, 2m/6.6 ft.



---

**P/N: 55001-0105**

© 2015, FLIR Systems, Inc.  
#55001-0105; r. 24597; en-US

- 1910586ACC; Power cable, pigtailed
- T197871ACC; Hard transport case for A3xx/A6xx series
- T197870ACC; Cardboard box for A3xx/A6xx series
- T126889ACC; Filter holder for A6xx lenses
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

**P/N: 55001-0201**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 55001-0201  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR A645sc is an excellent choice for those working in R&D but don't need the highest frame rates but do require 640 × 480 pixel resolution. When using the camera in R&D, it is highly recommended to use the FLIR ResearchIR software from FLIR Systems.

The camera is equipped with a 15° lens.

## Key features:

- Affordable.
- 16-bit 640 × 480 pixel images at 25 Hz.
- Start-and-stop recording in FLIR ResearchIR using digital input.

## Typical applications:

- Mid- or high-end industrial R&D that doesn't need the highest-speed frame rates.

## Imaging and optical data

IR resolution	640 × 480 pixels
Thermal sensitivity/NETD	< 0.03°C @ +30°C (+86°F) / 30 mK
Field of view (FOV)	15° × 11° (19° diagonal)
Minimum focus distance	0.50 m (1.64 ft.)
Focal length	41.3 mm (1.63 in.)
Spatial resolution (IFOV)	0.41 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	25 Hz
Focus	Automatic or manual (built in motor)

## Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm
Detector time constant	Typical 8 ms

## Measurement

Object temperature range	<ul style="list-style-type: none"> <li>• -40°C to +150°C (-40°F to +302°F)</li> <li>• 100 to +650°C (+212 to +1202°F)</li> </ul>
Accuracy	±2°C (±3.6°F) or ±2% of reading

## Measurement analysis

Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters

P/N: 55001-0201

© 2015, FLIR Systems, Inc.  
#55001-0201; r. 24597; en-US

USB	
USB	<ul style="list-style-type: none"> <li>Control and image</li> </ul>
USB, standard	USB 2 HS
USB, connector type	<ul style="list-style-type: none"> <li>USB Mini-B</li> </ul>
USB, communication	TCP/IP socket-based FLIR proprietary
USB, image streaming	16-bit 640 × 480 pixels @ 25 Hz <ul style="list-style-type: none"> <li>Signal linear</li> <li>Temperature linear</li> <li>Radiometric</li> </ul>
USB, protocols	TCP, UDP, SNMP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary and GenICam protocol
Ethernet, image streaming	16-bit 640 × 480 pixels @ 25 Hz <ul style="list-style-type: none"> <li>Signal linear</li> <li>Temperature linear</li> <li>Radiometric</li> </ul> GigE Vision and GenICam compatible
Ethernet, protocols	TCP, UDP, SNMP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Digital input/output	
Digital input, purpose	Image tag (start, stop, general), Image flow control, (stream on/off), Input ext. device (programmatically read)
Digital input	2 opto-isolated, 0–1.5 V = low, 3–25 V = high
Digital output, purpose	Output to ext. device (programmatically set)
Digital output	2 opto-isolated, ON = supply (max. 100 mA), OFF = open
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	6–24 VDC, max. 200 mA
Digital I/O, connector type	6-pole jackable screw terminal

Power system	
External power operation	12/24 VDC, 24 W absolute max.
External power, connector type	2-pole jackable screw terminal
Voltage	Allowed range 10–30 VDC

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> <li>EN 61000-6-2:2001 (Immunity)</li> <li>EN 61000-6-3:2001 (Emission)</li> <li>FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 30 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

**P/N: 55001-0201**

© 2015, FLIR Systems, Inc.  
#55001-0201; r. 24597; en-US

<b>Physical data</b>	
Weight	0.92 kg (2.03 lb.)
Camera size (L × W × H)	222 × 73 × 75 mm (8.7 × 2.9 × 3.0 in.)
Camera size, excl. lens (L × W × H)	203 × 73 × 75 mm (8.0 × 2.9 × 3.0 in.)
Tripod mounting	UNC ¼"-20 (on three sides)
Base mounting	2 × M4 thread mounting holes (on three sides)
Housing material	Aluminum
Comments to physical data	Outline dimensional drawings and STEP files can be found at <a href="http://support.flir.com">http://support.flir.com</a>

<b>Shipping information</b>	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Ethernet cable</li> <li>• FLIR ResearchIR Max 4 (licence only)</li> <li>• FLIR Tools download card</li> <li>• Hard transport case</li> <li>• Mains cable</li> <li>• Power cable, pig-tailed</li> <li>• Power supply</li> <li>• Printed documentation</li> <li>• USB cable</li> <li>• User documentation CD-ROM</li> </ul>
Packaging, weight	
Packaging, size	360 × 180 × 550 mm (14.2 × 7.1 × 21.7 in.)
EAN-13	7332558003275
UPC-12	845188002756
Country of origin	Sweden

**Supplies & accessories:**

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198065; IR lens, f=6.5 mm (80°) with case
- T198165; IR lens, f=88.9 mm (7°) with case and support for A6xx/A6xxsc
- T197896; High temp option +300°C to 2000°C (+572°F to 3632°F) for FLIR A6xxsc and T6xx
- 1910400; Power cord EU
- 1910401; Power cord US
- 1910402; Power cord UK
- T910922; Power supply, incl. multi plugs, for A3xx, A3xxsc, A6xx and A6xxsc
- T911182; Power supply for A3xx f, IP66
- 1910423; USB cable Std A <-> Mini-B
- T951004ACC; Ethernet cable CAT-6, 2m/6.6 ft.
- 1910586ACC; Power cable, pigtailed
- T197871ACC; Hard transport case for A3xx/A6xx series
- T197870ACC; Cardboard box for A3xx/A6xx series
- T126889ACC; Filter holder for A6xx lenses
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4





---

**P/N: 55001-0201**

© 2015, FLIR Systems, Inc.  
#55001-0201; r. 24597; en-US

- T199042; FLIR ResearchIR Standard 4 Upgrade
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

## P/N: 55001-0202

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 55001-0202  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The FLIR A645sc is an excellent choice for those working in R&D but don't need the highest frame rates but do require 640 × 480 pixel resolution. When using the camera in R&D, it is highly recommended to use the FLIR ResearchIR software from FLIR Systems.

The camera is equipped with the standard 25° lens.

#### Key features:

- Affordable.
- 16-bit 640 × 480 pixel images at 25 Hz.
- Start-and-stop recording in FLIR ResearchIR using digital input.

#### Typical applications:

- Mid- or high-end industrial R&D that doesn't need the highest-speed frame rates.

### Imaging and optical data

IR resolution	640 × 480 pixels
Thermal sensitivity/NETD	< 0.03°C @ +30°C (+86°F) / 30 mK
Field of view (FOV)	25° × 19° (31° diagonal)
Minimum focus distance	0.25 m (0.82 ft.)
Focal length	24.6 mm (0.97 in.)
Spatial resolution (IFOV)	0.68 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	25 Hz
Focus	Automatic or manual (built in motor)

### Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm
Detector time constant	Typical 8 ms

### Measurement

Object temperature range	<ul style="list-style-type: none"> <li>• –40°C to +150°C (–40°F to +302°F)</li> <li>• 100 to +650°C (+212 to +1202°F)</li> </ul>
Accuracy	±2°C (±3.6°F) or ±2% of reading

### Measurement analysis

Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters

**P/N: 55001-0202**

© 2015, FLIR Systems, Inc.  
#55001-0202; r. 24597; en-US

USB	
USB	<ul style="list-style-type: none"> <li>Control and image</li> </ul>
USB, standard	USB 2 HS
USB, connector type	<ul style="list-style-type: none"> <li>USB Mini-B</li> </ul>
USB, communication	TCP/IP socket-based FLIR proprietary
USB, image streaming	16-bit 640 × 480 pixels @ 25 Hz <ul style="list-style-type: none"> <li>Signal linear</li> <li>Temperature linear</li> <li>Radiometric</li> </ul>
USB, protocols	TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary and GenICam protocol
Ethernet, image streaming	16-bit 640 × 480 pixels @ 25 Hz <ul style="list-style-type: none"> <li>Signal linear</li> <li>Temperature linear</li> <li>Radiometric</li> </ul> GigE Vision and GenICam compatible
Ethernet, protocols	TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Digital input/output	
Digital input, purpose	Image tag (start, stop, general), Image flow control, (stream on/off), Input ext. device (programmatically read)
Digital input	2 opto-isolated, 0–1.5 V = low, 3–25 V = high
Digital output, purpose	Output to ext. device (programmatically set)
Digital output	2 opto-isolated, ON = supply (max. 100 mA), OFF = open
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	6–24 VDC, max. 200 mA
Digital I/O, connector type	6-pole jackable screw terminal

Power system	
External power operation	12/24 VDC, 24 W absolute max.
External power, connector type	2-pole jackable screw terminal
Voltage	Allowed range 10–30 VDC

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> <li>EN 61000-6-2:2001 (Immunity)</li> <li>EN 61000-6-3:2001 (Emission)</li> <li>FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 30 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

**P/N: 55001-0202**

© 2015, FLIR Systems, Inc.  
#55001-0202; r. 24597; en-US

Physical data	
Weight	0.90 kg (1.98 lb.)
Camera size (L × W × H)	216 × 73 × 75 mm (8.5 × 2.9 × 3.0 in.)
Camera size, excl. lens (L × W × H)	203 × 73 × 75 mm (8.0 × 2.9 × 3.0 in.)
Tripod mounting	UNC ¼"-20 (on three sides)
Base mounting	2 × M4 thread mounting holes (on three sides)
Housing material	Aluminum
Comments to physical data	Outline dimensional drawings and STEP files can be found at <a href="http://support.flir.com">http://support.flir.com</a>

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Ethernet cable</li> <li>• FLIR ResearchIR Max 4 (licence only)</li> <li>• FLIR Tools download card</li> <li>• Hard transport case</li> <li>• Mains cable</li> <li>• Power cable, pig-tailed</li> <li>• Power supply</li> <li>• Printed documentation</li> <li>• USB cable</li> <li>• User documentation CD-ROM</li> </ul>
Packaging, weight	
Packaging, size	360 × 180 × 550 mm (14.2 × 7.1 × 21.7 in.)
EAN-13	7332558003282
UPC-12	845188002763
Country of origin	Sweden

**Supplies & accessories:**

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9× (50 µm) with case
- T198060; Close-up IR lens, 5.8× (100 µm) with case
- T198065; IR lens, f=6.5 mm (80°) with case
- T198165; IR lens, f=88.9 mm (7°) with case and support for A6xx/A6xxsc
- T198066; Close-up IR lens, 1.5× (25 µm) with case
- T197896; High temp option +300°C to 2000°C (+572°F to 3632°F) for FLIR A6xxsc and T6xx
- 1910400; Power cord EU
- 1910401; Power cord US
- 1910402; Power cord UK
- T910922; Power supply, incl. multi plugs, for A3xx, A3xxsc, A6xx and A6xxsc
- T911182; Power supply for A3xx f, IP66
- 1910423; USB cable Std A <-> Mini-B
- T951004ACC; Ethernet cable CAT-6, 2m/6.6 ft.
- 1910586ACC; Power cable, pigtailed
- T197871ACC; Hard transport case for A3xx/A6xx series
- T197870ACC; Cardboard box for A3xx/A6xx series
- T126889ACC; Filter holder for A6xx lenses
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4



---

**P/N: 55001-0202**

© 2015, FLIR Systems, Inc.  
#55001-0202; r. 24597; en-US

- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

**P/N: 55001-0203**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 55001-0203  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The FLIR A645sc is an excellent choice for those working in R&D but don't need the highest frame rates but do require 640 × 480 pixel resolution. When using the camera in R&D, it is highly recommended to use the FLIR ResearchIR software from FLIR Systems.

The camera is equipped with a 45° lens.

## Key features:

- Affordable.
- 16-bit 640 × 480 pixel images at 25 Hz.
- Start-and-stop recording in FLIR ResearchIR using digital input.

## Typical applications:

- Mid- or high-end industrial R&D that doesn't need the highest-speed frame rates.

## Imaging and optical data

IR resolution	640 × 480 pixels
Thermal sensitivity/NETD	< 0.03°C @ +30°C (+86°F) / 30 mK
Field of view (FOV)	45° × 34° (55° diagonal)
Minimum focus distance	0.15 m (0.49 ft.)
Focal length	13.1 mm (0.52 in.)
Spatial resolution (IFOV)	1.23 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	25 Hz
Focus	Automatic or manual (built in motor)

## Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm
Detector time constant	Typical 8 ms

## Measurement

Object temperature range	<ul style="list-style-type: none"> <li>• -40°C to +150°C (-40°F to +302°F)</li> <li>• 100 to +650°C (+212 to +1202°F)</li> </ul>
Accuracy	±2°C (±3.6°F) or ±2% of reading

## Measurement analysis

Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters

**P/N: 55001-0203**

© 2015, FLIR Systems, Inc.  
#55001-0203; r. 24597; en-US

USB	
USB	<ul style="list-style-type: none"> <li>Control and image</li> </ul>
USB, standard	USB 2 HS
USB, connector type	<ul style="list-style-type: none"> <li>USB Mini-B</li> </ul>
USB, communication	TCP/IP socket-based FLIR proprietary
USB, image streaming	16-bit 640 × 480 pixels @ 25 Hz <ul style="list-style-type: none"> <li>Signal linear</li> <li>Temperature linear</li> <li>Radiometric</li> </ul>
USB, protocols	TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary and GenICam protocol
Ethernet, image streaming	16-bit 640 × 480 pixels @ 25 Hz <ul style="list-style-type: none"> <li>Signal linear</li> <li>Temperature linear</li> <li>Radiometric</li> </ul> GigE Vision and GenICam compatible
Ethernet, protocols	TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Digital input/output	
Digital input, purpose	Image tag (start, stop, general), Image flow control, (stream on/off), Input ext. device (programmatically read)
Digital input	2 opto-isolated, 0–1.5 V = low, 3–25 V = high
Digital output, purpose	Output to ext. device (programmatically set)
Digital output	2 opto-isolated, ON = supply (max. 100 mA), OFF = open
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	6–24 VDC, max. 200 mA
Digital I/O, connector type	6-pole jackable screw terminal

Power system	
External power operation	12/24 VDC, 24 W absolute max.
External power, connector type	2-pole jackable screw terminal
Voltage	Allowed range 10–30 VDC

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> <li>EN 61000-6-2:2001 (Immunity)</li> <li>EN 61000-6-3:2001 (Emission)</li> <li>FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 30 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

**P/N: 55001-0203**

© 2015, FLIR Systems, Inc.  
#55001-0203; r. 24597; en-US

Physical data	
Weight	0.94 kg (2.07 lb.)
Camera size (L × W × H)	225 × 73 × 75 mm (8.8 × 2.9 × 3.0 in.)
Camera size, excl. lens (L × W × H)	203 × 73 × 75 mm (8.0 × 2.9 × 3.0 in.)
Tripod mounting	UNC ¼"-20 (on three sides)
Base mounting	2 × M4 thread mounting holes (on three sides)
Housing material	Aluminum
Comments to physical data	Outline dimensional drawings and STEP files can be found at <a href="http://support.flir.com">http://support.flir.com</a>

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Ethernet cable</li> <li>• FLIR ResearchIR Max 4 (licence only)</li> <li>• FLIR Tools download card</li> <li>• Hard transport case</li> <li>• Mains cable</li> <li>• Power cable, pig-tailed</li> <li>• Power supply</li> <li>• Printed documentation</li> <li>• USB cable</li> <li>• User documentation CD-ROM</li> </ul>
Packaging, weight	
Packaging, size	360 × 180 × 550 mm (14.2 × 7.1 × 21.7 in.)
EAN-13	7332558003299
UPC-12	845188002770
Country of origin	Sweden

**Supplies & accessories:**

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198065; IR lens, f=6.5 mm (80°) with case
- T198165; IR lens, f=88.9 mm (7°) with case and support for A6xx/A6xxsc
- T198066; Close-up IR lens, 1.5× (25 µm) with case
- T197896; High temp option +300°C to 2000°C (+572°F to 3632°F) for FLIR A6xxsc and T6xx
- 1910400; Power cord EU
- 1910401; Power cord US
- 1910402; Power cord UK
- T910922; Power supply, incl. multi plugs, for A3xx, A3xxsc, A6xx and A6xxsc
- T911182; Power supply for A3xx f, IP66
- 1910423; USB cable Std A <-> Mini-B
- T951004ACC; Ethernet cable CAT-6, 2m/6.6 ft.
- 1910586ACC; Power cable, pigtailed
- T197871ACC; Hard transport case for A3xx/A6xx series
- T197870ACC; Cardboard box for A3xx/A6xx series
- T126889ACC; Filter holder for A6xx lenses
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4





---

**P/N: 55001-0203**

© 2015, FLIR Systems, Inc.  
#55001-0203; r. 24597; en-US

- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

## P/N: 55001-0204

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 55001-0204  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
The FLIR A645sc is an excellent choice for those working in R&D but don't need the highest frame rates but do require 640 × 480 pixel resolution. When using the camera in R&D, it is highly recommended to use the FLIR ResearchIR software from FLIR Systems.	
The camera is equipped with a 7° lens.	
Key features:	
<ul style="list-style-type: none"> <li>Affordable.</li> <li>16-bit 640 × 480 pixel images at 25 Hz.</li> <li>Start-and-stop recording in FLIR ResearchIR using digital input.</li> </ul>	
Typical applications:	
<ul style="list-style-type: none"> <li>Mid- or high-end industrial R&amp;D that doesn't need the highest-speed frame rates.</li> </ul>	
Imaging and optical data	
IR resolution	640 × 480 pixels
Thermal sensitivity/NETD	< 0.03°C @ +30°C (+86°F) / 30 mK
Field of view (FOV)	7° × 5.3° (8.7° diagonally)
Minimum focus distance	2.0 m (6.6 ft.)
Focal length	88.9 mm (3.5 in.)
Spatial resolution (IFOV)	0.19 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	25 Hz
Focus	Automatic or manual (built in motor)
Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm
Detector time constant	Typical 8 ms
Measurement	
Object temperature range	<ul style="list-style-type: none"> <li>–40°C to +150°C (–40°F to +302°F)</li> <li>100 to +650°C (+212 to +1202°F)</li> </ul>
Accuracy	±2°C (±3.6°F) or ±2% of reading
Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0

**P/N: 55001-0204**

© 2015, FLIR Systems, Inc.  
#55001-0204; r. 24597; en-US

Measurement analysis	
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters
USB	
USB	<ul style="list-style-type: none"> <li>Control and image</li> </ul>
USB, standard	USB 2 HS
USB, connector type	<ul style="list-style-type: none"> <li>USB Mini-B</li> </ul>
USB, communication	TCP/IP socket-based FLIR proprietary
USB, image streaming	16-bit 640 × 480 pixels @ 25 Hz <ul style="list-style-type: none"> <li>Signal linear</li> <li>Temperature linear</li> <li>Radiometric</li> </ul>
USB, protocols	TCP, UDP, SNMP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP
Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary and GenICam protocol
Ethernet, image streaming	16-bit 640 × 480 pixels @ 25 Hz <ul style="list-style-type: none"> <li>Signal linear</li> <li>Temperature linear</li> <li>Radiometric</li> </ul> GigE Vision and GenICam compatible
Ethernet, protocols	TCP, UDP, SNMP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP
Digital input/output	
Digital input, purpose	Image tag (start, stop, general), Image flow control, (stream on/off), Input ext. device (programmatically read)
Digital input	2 opto-isolated, 0–1.5 V = low, 3–25 V = high
Digital output, purpose	Output to ext. device (programmatically set)
Digital output	2 opto-isolated, ON = supply (max. 100 mA), OFF = open
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	6–24 VDC, max. 200 mA
Digital I/O, connector type	6-pole jackable screw terminal
Power system	
External power operation	12/24 VDC, 24 W absolute max.
External power, connector type	2-pole jackable screw terminal
Voltage	Allowed range 10–30 VDC
Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)

**P/N: 55001-0204**

© 2015, FLIR Systems, Inc.  
#55001-0204; r. 24597; en-US

Environmental data	
EMC	<ul style="list-style-type: none"> <li>EN 61000-6-2:2001 (Immunity)</li> <li>EN 61000-6-3:2001 (Emission)</li> <li>FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 30 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	1.61 kg (3.55 lb.)
Camera size (L × W × H)	271 × 126 × 128 mm (10.7 × 5.0 × 5.0 in.)
Camera size, excl. lens (L × W × H)	203 × 73 × 75 mm (8.0 × 2.9 × 3.0 in.)
Tripod mounting	UNC ¼"-20 (on three sides)
Base mounting	2 × M4 thread mounting holes (on three sides)
Housing material	Aluminum
Comments to physical data	Outline dimensional drawings and STEP files can be found at <a href="http://support.flir.com">http://support.flir.com</a>

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Infrared camera with lens</li> <li>Ethernet cable</li> <li>FLIR ResearchIR Max 4 (licence only)</li> <li>FLIR Tools download card</li> <li>Hard transport case</li> <li>Mains cable</li> <li>Power cable, pig-tailed</li> <li>Power supply</li> <li>Printed documentation</li> <li>USB cable</li> <li>User documentation CD-ROM</li> </ul>
Packaging, weight	
Packaging, size	
EAN-13	7332558006450
UPC-12	845188006808
Country of origin	Sweden

**Supplies & accessories:**

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198065; IR lens, f=6.5 mm (80°) with case
- T198165; IR lens, f=88.9 mm (7°) with case and support for A6xx/A6xxsc
- T197896; High temp option +300°C to 2000°C (+572°F to 3632°F) for FLIR A6xxsc and T6xx
- 1910400; Power cord EU
- 1910401; Power cord US
- 1910402; Power cord UK
- T910922; Power supply, incl. multi plugs, for A3xx, A3xxsc, A6xx and A6xxsc
- T911182; Power supply for A3xx f, IP66
- 1910423; USB cable Std A <-> Mini-B
- T951004ACC; Ethernet cable CAT-6, 2m/6.6 ft.
- 1910586ACC; Power cable, pigtailed
- T197871ACC; Hard transport case for A3xx/A6xx series
- T197870ACC; Cardboard box for A3xx/A6xx series
- T126889ACC; Filter holder for A6xx lenses
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player



---

**P/N: 55001-0204**

© 2015, FLIR Systems, Inc.  
#55001-0204; r. 24597; en-US

- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

## P/N: 55001-0205

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 55001-0205  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



<b>General description</b>	
The FLIR A645sc is an excellent choice for those working in R&D but don't need the highest frame rates but do require 640 × 480 pixel resolution. When using the camera in R&D, it is highly recommended to use the FLIR ResearchIR software from FLIR Systems.	
The camera is equipped with a 80° lens.	
Key features:	
<ul style="list-style-type: none"> <li>Affordable.</li> <li>16-bit 640 × 480 pixel images at 25 Hz.</li> <li>Start-and-stop recording in FLIR ResearchIR using digital input.</li> </ul>	
Typical applications:	
<ul style="list-style-type: none"> <li>Mid- or high-end industrial R&amp;D that doesn't need the highest-speed frame rates.</li> </ul>	
<b>Imaging and optical data</b>	
IR resolution	640 × 480 pixels
Thermal sensitivity/NETD	< 0.03°C @ +30°C (+86°F) / 30 mK
Field of view (FOV)	80° × 64.4° (92.8° diagonal)
Minimum focus distance	65 mm (2.6 in.)
Focal length	6.5 mm (0.26 in.)
Spatial resolution (IFOV)	2.62 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	25 Hz
Focus	Automatic or manual (built in motor)
<b>Detector data</b>	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm
Detector time constant	Typical 8 ms
<b>Measurement</b>	
Object temperature range	<ul style="list-style-type: none"> <li>–40°C to +150°C (–40°F to +302°F)</li> <li>100 to +650°C (+212 to +1202°F)</li> </ul>
Accuracy	±2°C (±3.6°F) or ±2% of reading
<b>Measurement analysis</b>	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters

**P/N: 55001-0205**

© 2015, FLIR Systems, Inc.  
#55001-0205; r. 24597; en-US

USB	
USB	<ul style="list-style-type: none"> <li>Control and image</li> </ul>
USB, standard	USB 2 HS
USB, connector type	<ul style="list-style-type: none"> <li>USB Mini-B</li> </ul>
USB, communication	TCP/IP socket-based FLIR proprietary
USB, image streaming	16-bit 640 × 480 pixels @ 25 Hz <ul style="list-style-type: none"> <li>Signal linear</li> <li>Temperature linear</li> <li>Radiometric</li> </ul>
USB, protocols	TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary and GenICam protocol
Ethernet, image streaming	16-bit 640 × 480 pixels @ 25 Hz <ul style="list-style-type: none"> <li>Signal linear</li> <li>Temperature linear</li> <li>Radiometric</li> </ul> GigE Vision and GenICam compatible
Ethernet, protocols	TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Digital input/output	
Digital input, purpose	Image tag (start, stop, general), Image flow control, (stream on/off), Input ext. device (programmatically read)
Digital input	2 opto-isolated, 0–1.5 V = low, 3–25 V = high
Digital output, purpose	Output to ext. device (programmatically set)
Digital output	2 opto-isolated, ON = supply (max. 100 mA), OFF = open
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	6–24 VDC, max. 200 mA
Digital I/O, connector type	6-pole jackable screw terminal

Power system	
External power operation	12/24 VDC, 24 W absolute max.
External power, connector type	2-pole jackable screw terminal
Voltage	Allowed range 10–30 VDC

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> <li>EN 61000-6-2:2001 (Immunity)</li> <li>EN 61000-6-3:2001 (Emission)</li> <li>FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 30 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

**P/N: 55001-0205**

© 2015, FLIR Systems, Inc.  
#55001-0205; r. 24597; en-US

Physical data	
Weight	1.17 kg (2.58 lb.)
Camera size (L × W × H)	297 × 73 × 75 mm (11.7 × 2.9 × 3.0 in.)
Camera size, excl. lens (L × W × H)	203 × 73 × 75 mm (8.0 × 2.9 × 3.0 in.)
Tripod mounting	UNC ¼"-20 (on three sides)
Base mounting	2 × M4 thread mounting holes (on three sides)
Housing material	Aluminum
Comments to physical data	Outline dimensional drawings and STEP files can be found at <a href="http://support.flir.com">http://support.flir.com</a>

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Ethernet cable</li> <li>• FLIR ResearchIR Max 4 (licence only)</li> <li>• FLIR Tools download card</li> <li>• Hard transport case</li> <li>• Mains cable</li> <li>• Power cable, pig-tailed</li> <li>• Power supply</li> <li>• Printed documentation</li> <li>• USB cable</li> <li>• User documentation CD-ROM</li> </ul>
Packaging, weight	
Packaging, size	
EAN-13	7332558007235
UPC-12	845188007577
Country of origin	Sweden

**Supplies & accessories:**

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198065; IR lens, f=6.5 mm (80°) with case
- T198165; IR lens, f=88.9 mm (7°) with case and support for A6xx/A6xxsc
- T197896; High temp option +300°C to 2000°C (+572°F to 3632°F) for FLIR A6xxsc and T6xx
- 1910400; Power cord EU
- 1910401; Power cord US
- 1910402; Power cord UK
- T910922; Power supply, incl. multi plugs, for A3xx, A3xxsc, A6xx and A6xxsc
- T911182; Power supply for A3xx f, IP66
- 1910423; USB cable Std A <-> Mini-B
- T951004ACC; Ethernet cable CAT-6, 2m/6.6 ft.
- 1910586ACC; Power cable, pigtailed
- T197871ACC; Hard transport case for A3xx/A6xx series
- T197870ACC; Cardboard box for A3xx/A6xx series
- T126889ACC; Filter holder for A6xx lenses
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4





---

**P/N: 55001-0205**

© 2015, FLIR Systems, Inc.  
#55001-0205; r. 24597; en-US

- T199042; FLIR ResearchIR Standard 4 Upgrade
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

## P/N: 55001-0301

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 55001-0301  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
The FLIR A655sc is an excellent choice for those working in R&D but don't need the highest frame rates but do require 640 × 480 pixel resolution. When using the camera in R&D, it is highly recommended to use the FLIR ResearchIR software from FLIR Systems.	
The camera is equipped with a 15° lens.	
Key features:	
<ul style="list-style-type: none"> <li>Affordable.</li> <li>16-bit 640 × 480 pixel images at 25 Hz.</li> <li>Start-and-stop recording in FLIR ResearchIR using digital input.</li> <li>Windowing mode: 640 × 240 pixels at 100 Hz or 640 × 120 pixels at 200 Hz.</li> </ul>	
Typical applications:	
<ul style="list-style-type: none"> <li>Mid- or high-end industrial R&amp;D.</li> </ul>	
Imaging and optical data	
IR resolution	640 × 480 pixels
Thermal sensitivity/NETD	< 0.03°C @ +30°C (+86°F) / 30 mK
Field of view (FOV)	15° × 11° (19° diagonal)
Minimum focus distance	0.50 m (1.64 ft.)
Focal length	41.3 mm (1.63 in.)
Spatial resolution (IFOV)	0.41 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	50 Hz (100/200 Hz with windowing)
Focus	Automatic or manual (built in motor)
Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm
Detector time constant	Typical 8 ms
Measurement	
Object temperature range	<ul style="list-style-type: none"> <li>–40°C to +150°C (–40°F to +302°F)</li> <li>100 to +650°C (+212 to +1202°F)</li> </ul>
Accuracy	±2°C (±3.6°F) or ±2% of reading
Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature

P/N: 55001-0301

© 2015, FLIR Systems, Inc.  
#55001-0301; r. 24597; en-US

Measurement analysis	
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters

USB	
USB	<ul style="list-style-type: none"> <li>Control and image</li> </ul>
USB, standard	USB 2 HS
USB, connector type	<ul style="list-style-type: none"> <li>USB Mini-B</li> </ul>
USB, communication	TCP/IP socket-based FLIR proprietary
USB, image streaming	16-bit 640 × 480 pixels @ 25 Hz <ul style="list-style-type: none"> <li>Signal linear</li> <li>Temperature linear</li> <li>Radiometric</li> </ul>
USB, protocols	TCP, UDP, SNMP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary and GenICam protocol
Ethernet, image streaming	16-bit 640 × 480 pixels @ 50 Hz 16-bit 640 × 240 pixels @ 100 Hz 16-bit 640 × 120 pixels @ 200 Hz <ul style="list-style-type: none"> <li>Signal linear</li> <li>Temperature linear</li> <li>Radiometric</li> </ul> GigE Vision and GenICam compatible
Ethernet, protocols	TCP, UDP, SNMP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Digital input/output	
Digital input, purpose	Image tag (start, stop, general), Image flow control, (stream on/off), Input ext. device (programmatically read)
Digital input	2 opto-isolated, 0–1.5 V = low, 3–25 V = high
Digital output, purpose	Output to ext. device (programmatically set)
Digital output	2 opto-isolated, ON = supply (max. 100 mA), OFF = open
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	6–24 VDC, max. 200 mA
Digital I/O, connector type	6-pole jackable screw terminal

Power system	
External power operation	12/24 VDC, 24 W absolute max.
External power, connector type	2-pole jackable screw terminal
Voltage	Allowed range 10–30 VDC

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)

**P/N: 55001-0301**

 © 2015, FLIR Systems, Inc.  
 #55001-0301; r. 24597; en-US

<b>Environmental data</b>	
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> <li>• EN 61000-6-2:2001 (Immunity)</li> <li>• EN 61000-6-3:2001 (Emission)</li> <li>• FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 30 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

<b>Physical data</b>	
Weight	0.92 kg (2.03 lb.)
Camera size (L × W × H)	222 × 73 × 75 mm (8.7 × 2.9 × 3.0 in.)
Camera size, excl. lens (L × W × H)	203 × 73 × 75 mm (8.0 × 2.9 × 3.0 in.)
Tripod mounting	UNC ¼"-20 (on three sides)
Base mounting	2 × M4 thread mounting holes (on three sides)
Housing material	Aluminum
Comments to physical data	Outline dimensional drawings and STEP files can be found at <a href="http://support.flir.com">http://support.flir.com</a>

<b>Shipping information</b>	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Ethernet cable</li> <li>• FLIR ResearchIR Max 4 (licence only)</li> <li>• FLIR Tools download card</li> <li>• Hard transport case</li> <li>• Mains cable</li> <li>• Power cable, pig-tailed</li> <li>• Power supply</li> <li>• Printed documentation</li> <li>• USB cable</li> <li>• User documentation CD-ROM</li> </ul>
Packaging, weight	
Packaging, size	360 × 180 × 550 mm (14.2 × 7.1 × 21.7 in.)
EAN-13	7332558003305
UPC-12	845188002787
Country of origin	Sweden

**Supplies & accessories:**

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198065; IR lens, f=6.5 mm (80°) with case
- T198165; IR lens, f=88.9 mm (7°) with case and support for A6xx/A6xxsc
- T197896; High temp option +300°C to 2000°C (+572°F to 3632°F) for FLIR A6xxsc and T6xx
- 1910400; Power cord EU
- 1910401; Power cord US
- 1910402; Power cord UK
- T910922; Power supply, incl. multi plugs, for A3xx, A3xxsc, A6xx and A6xxsc
- T911182; Power supply for A3xx f, IP66
- 1910423; USB cable Std A <-> Mini-B
- T951004ACC; Ethernet cable CAT-6, 2m/6.6 ft.
- 1910586ACC; Power cable, pigtailed
- T197871ACC; Hard transport case for A3xx/A6xx series
- T197870ACC; Cardboard box for A3xx/A6xx series
- T126889ACC; Filter holder for A6xx lenses
- T198584; FLIR Tools

---

**P/N: 55001-0301**

© 2015, FLIR Systems, Inc.  
#55001-0301; r. 24597; en-US

- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

## P/N: 55001-0302

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 55001-0302  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The FLIR A655sc is an excellent choice for those working in R&D and require the highest frame rates and 640 × 480 pixel resolution. When using the camera in R&D, it is highly recommended to use the FLIR ResearchIR software from FLIR Systems.

The camera is equipped with the standard 25° lens.

#### Key features:

- Affordable.
- 16-bit 640 × 480 pixel images at 50 Hz.
- Start-and-stop recording in FLIR ResearchIR using digital input.
- Windowing mode: 640 × 240 pixels at 100 Hz or 640 × 120 pixels at 200 Hz.

#### Typical applications:

- Mid- or high-end industrial R&D.

### Imaging and optical data

IR resolution	640 × 480 pixels
Thermal sensitivity/NETD	< 0.03°C @ +30°C (+86°F) / 30 mK
Field of view (FOV)	25° × 19° (31° diagonal)
Minimum focus distance	0.25 m (0.82 ft.)
Focal length	24.6 mm (0.97 in.)
Spatial resolution (IFOV)	0.68 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	50 Hz (100/200 Hz with windowing)
Focus	Automatic or manual (built in motor)

### Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm
Detector time constant	Typical 8 ms

### Measurement

Object temperature range	<ul style="list-style-type: none"> <li>• –40°C to +150°C (–40°F to +302°F)</li> <li>• 100 to +650°C (+212 to +1202°F)</li> </ul>
Accuracy	±2°C (±3.6°F) or ±2% of reading

### Measurement analysis

Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature

**P/N: 55001-0302**

© 2015, FLIR Systems, Inc.  
#55001-0302; r. 24597; en-US

Measurement analysis	
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters
USB	
USB	<ul style="list-style-type: none"> <li>Control and image</li> </ul>
USB, standard	USB 2 HS
USB, connector type	<ul style="list-style-type: none"> <li>USB Mini-B</li> </ul>
USB, communication	TCP/IP socket-based FLIR proprietary
USB, image streaming	16-bit 640 × 480 pixels @ 25 Hz <ul style="list-style-type: none"> <li>Signal linear</li> <li>Temperature linear</li> <li>Radiometric</li> </ul>
USB, protocols	TCP, UDP, SNMP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP
Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary and GenICam protocol
Ethernet, image streaming	16-bit 640 × 480 pixels @ 50 Hz 16-bit 640 × 240 pixels @ 100 Hz 16-bit 640 × 120 pixels @ 200 Hz <ul style="list-style-type: none"> <li>Signal linear</li> <li>Temperature linear</li> <li>Radiometric</li> </ul> GigE Vision and GenICam compatible
Ethernet, protocols	TCP, UDP, SNMP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP
Digital input/output	
Digital input, purpose	Image tag (start, stop, general), Image flow control, (stream on/off), Input ext. device (programmatically read)
Digital input	2 opto-isolated, 0–1.5 V = low, 3–25 V = high
Digital output, purpose	Output to ext. device (programmatically set)
Digital output	2 opto-isolated, ON = supply (max. 100 mA), OFF = open
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	6–24 VDC, max. 200 mA
Digital I/O, connector type	6-pole jackable screw terminal
Power system	
External power operation	12/24 VDC, 24 W absolute max.
External power, connector type	2-pole jackable screw terminal
Voltage	Allowed range 10–30 VDC
Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)

**P/N: 55001-0302**

© 2015, FLIR Systems, Inc.  
#55001-0302; r. 24597; en-US

<b>Environmental data</b>	
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> <li>• EN 61000-6-2:2001 (Immunity)</li> <li>• EN 61000-6-3:2001 (Emission)</li> <li>• FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 30 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

<b>Physical data</b>	
Weight	0.90 kg (1.98 lb.)
Camera size (L × W × H)	216 × 73 × 75 mm (8.5 × 2.9 × 3.0 in.)
Camera size, excl. lens (L × W × H)	203 × 73 × 75 mm (8.0 × 2.9 × 3.0 in.)
Tripod mounting	UNC ¼"-20 (on three sides)
Base mounting	2 × M4 thread mounting holes (on three sides)
Housing material	Aluminum
Comments to physical data	Outline dimensional drawings and STEP files can be found at <a href="http://support.flir.com">http://support.flir.com</a>

<b>Shipping information</b>	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Ethernet cable</li> <li>• FLIR ResearchIR Max 4 (licence only)</li> <li>• FLIR Tools download card</li> <li>• Hard transport case</li> <li>• Mains cable</li> <li>• Power cable, pig-tailed</li> <li>• Power supply</li> <li>• Printed documentation</li> <li>• USB cable</li> <li>• User documentation CD-ROM</li> </ul>
Packaging, weight	5.4 kg (11.9 lb.)
Packaging, size	360 × 180 × 550 mm (14.2 × 7.1 × 21.7 in.)
EAN-13	7332558003312
UPC-12	845188002794
Country of origin	Sweden

**Supplies & accessories:**

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9× (50 µm) with case
- T198060; Close-up IR lens, 5.8× (100 µm) with case
- T198065; IR lens, f=6.5 mm (80°) with case
- T198165; IR lens, f=88.9 mm (7°) with case and support for A6xx/A6xxsc
- T198066; Close-up IR lens, 1.5× (25 µm) with case
- T197896; High temp option +300°C to 2000°C (+572°F to 3632°F) for FLIR A6xxsc and T6xx
- 1910400; Power cord EU
- 1910401; Power cord US
- 1910402; Power cord UK
- T910922; Power supply, incl. multi plugs, for A3xx, A3xxsc, A6xx and A6xxsc
- T911182; Power supply for A3xx f, IP66
- 1910423; USB cable Std A <-> Mini-B
- T951004ACC; Ethernet cable CAT-6, 2m/6.6 ft.
- 1910586ACC; Power cable, pigtailed
- T197871ACC; Hard transport case for A3xx/A6xx series



---

**P/N: 55001-0302**

© 2015, FLIR Systems, Inc.  
#55001-0302; r. 24597; en-US

- T197870ACC; Cardboard box for A3xx/A6xx series
- T126889ACC; Filter holder for A6xx lenses
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

## P/N: 55001-0303

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 55001-0303  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
The FLIR A655sc is an excellent choice for those working in R&D and require the highest frame rates and 640 × 480 pixel resolution. When using the camera in R&D, it is highly recommended to use the FLIR ResearchIR software from FLIR Systems.	
The camera is equipped with a 45° lens.	
Key features:	
<ul style="list-style-type: none"> <li>Affordable.</li> <li>16-bit 640 × 480 pixel images at 50 Hz.</li> <li>Start-and-stop recording in FLIR ResearchIR using digital input.</li> <li>Windowing mode: 640 × 240 pixels at 100 Hz or 640 × 120 pixels at 200 Hz.</li> </ul>	
Typical applications:	
<ul style="list-style-type: none"> <li>Mid- or high-end industrial R&amp;D.</li> </ul>	
Imaging and optical data	
IR resolution	640 × 480 pixels
Thermal sensitivity/NETD	< 0.03°C @ +30°C (+86°F) / 30 mK
Field of view (FOV)	45° × 34° (55° diagonal)
Minimum focus distance	0.15 m (0.49 ft.)
Focal length	13.1 mm (0.52 in.)
Spatial resolution (IFOV)	1.23 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	50 Hz (100/200 Hz with windowing)
Focus	Automatic or manual (built in motor)
Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm
Detector time constant	Typical 8 ms
Measurement	
Object temperature range	<ul style="list-style-type: none"> <li>–40°C to +150°C (–40°F to +302°F)</li> <li>100 to +650°C (+212 to +1202°F)</li> </ul>
Accuracy	±2°C (±3.6°F) or ±2% of reading
Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature

**P/N: 55001-0303**

© 2015, FLIR Systems, Inc.  
#55001-0303; r. 24597; en-US

Measurement analysis	
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters

USB	
USB	<ul style="list-style-type: none"> <li>Control and image</li> </ul>
USB, standard	USB 2 HS
USB, connector type	<ul style="list-style-type: none"> <li>USB Mini-B</li> </ul>
USB, communication	TCP/IP socket-based FLIR proprietary
USB, image streaming	16-bit 640 × 480 pixels @ 25 Hz <ul style="list-style-type: none"> <li>Signal linear</li> <li>Temperature linear</li> <li>Radiometric</li> </ul>
USB, protocols	TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary and GenICam protocol
Ethernet, image streaming	16-bit 640 × 480 pixels @ 50 Hz 16-bit 640 × 240 pixels @ 100 Hz 16-bit 640 × 120 pixels @ 200 Hz <ul style="list-style-type: none"> <li>Signal linear</li> <li>Temperature linear</li> <li>Radiometric</li> </ul> GigE Vision and GenICam compatible
Ethernet, protocols	TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Digital input/output	
Digital input, purpose	Image tag (start, stop, general), Image flow control, (stream on/off), Input ext. device (programmatically read)
Digital input	2 opto-isolated, 0–1.5 V = low, 3–25 V = high
Digital output, purpose	Output to ext. device (programmatically set)
Digital output	2 opto-isolated, ON = supply (max. 100 mA), OFF = open
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	6–24 VDC, max. 200 mA
Digital I/O, connector type	6-pole jackable screw terminal

Power system	
External power operation	12/24 VDC, 24 W absolute max.
External power, connector type	2-pole jackable screw terminal
Voltage	Allowed range 10–30 VDC

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)

**P/N: 55001-0303**

© 2015, FLIR Systems, Inc.  
#55001-0303; r. 24597; en-US

<b>Environmental data</b>	
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> <li>• EN 61000-6-2:2001 (Immunity)</li> <li>• EN 61000-6-3:2001 (Emission)</li> <li>• FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 30 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

<b>Physical data</b>	
Weight	0.94 kg (2.07 lb.)
Camera size (L × W × H)	225 × 73 × 75 mm (8.8 × 2.9 × 3.0 in.)
Camera size, excl. lens (L × W × H)	203 × 73 × 75 mm (8.0 × 2.9 × 3.0 in.)
Tripod mounting	UNC ¼"-20 (on three sides)
Base mounting	2 × M4 thread mounting holes (on three sides)
Housing material	Aluminum
Comments to physical data	Outline dimensional drawings and STEP files can be found at <a href="http://support.flir.com">http://support.flir.com</a>

<b>Shipping information</b>	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Ethernet cable</li> <li>• FLIR ResearchIR Max 4 (licence only)</li> <li>• FLIR Tools download card</li> <li>• Hard transport case</li> <li>• Mains cable</li> <li>• Power cable, pig-tailed</li> <li>• Power supply</li> <li>• Printed documentation</li> <li>• USB cable</li> <li>• User documentation CD-ROM</li> </ul>
Packaging, weight	
Packaging, size	360 × 180 × 550 mm (14.2 × 7.1 × 21.7 in.)
EAN-13	7332558003329
UPC-12	845188002800
Country of origin	Sweden

**Supplies & accessories:**

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198065; IR lens, f=6.5 mm (80°) with case
- T198165; IR lens, f=88.9 mm (7°) with case and support for A6xx/A6xxsc
- T198066; Close-up IR lens, 1.5× (25 µm) with case
- T197896; High temp option +300°C to 2000°C (+572°F to 3632°F) for FLIR A6xxsc and T6xx
- 1910400; Power cord EU
- 1910401; Power cord US
- 1910402; Power cord UK
- T910922; Power supply, incl. multi plugs, for A3xx, A3xxsc, A6xx and A6xxsc
- T911182; Power supply for A3xx f, IP66
- 1910423; USB cable Std A <-> Mini-B
- T951004ACC; Ethernet cable CAT-6, 2m/6.6 ft.
- 1910586ACC; Power cable, pigtailed
- T197871ACC; Hard transport case for A3xx/A6xx series
- T197870ACC; Cardboard box for A3xx/A6xx series
- T126889ACC; Filter holder for A6xx lenses



---

**P/N: 55001-0303**

© 2015, FLIR Systems, Inc.  
#55001-0303; r. 24597; en-US

- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

## P/N: 55001-0304

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 55001-0304  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
The FLIR A655sc is an excellent choice for those working in R&D and require the highest frame rates and 640 × 480 pixel resolution. When using the camera in R&D, it is highly recommended to use the FLIR ResearchIR software from FLIR Systems.	
The camera is equipped with a 7° lens.	
Key features:	
<ul style="list-style-type: none"> <li>Affordable.</li> <li>16-bit 640 × 480 pixel images at 50 Hz.</li> <li>Start-and-stop recording in FLIR ResearchIR using digital input.</li> <li>Windowing mode: 640 × 240 pixels at 100 Hz or 640 × 120 pixels at 200 Hz.</li> </ul>	
Typical applications:	
<ul style="list-style-type: none"> <li>Mid- or high-end industrial R&amp;D.</li> </ul>	
Imaging and optical data	
IR resolution	640 × 480 pixels
Thermal sensitivity/NETD	< 0.03°C @ +30°C (+86°F) / 30 mK
Field of view (FOV)	7° × 5.3° (8.7° diagonally)
Minimum focus distance	2.0 m (6.6 ft.)
Focal length	88.9 mm (3.5 in.)
Spatial resolution (IFOV)	0.19 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	50 Hz (100/200 Hz with windowing)
Focus	Automatic or manual (built in motor)
Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm
Detector time constant	Typical 8 ms
Measurement	
Object temperature range	<ul style="list-style-type: none"> <li>–40°C to +150°C (–40°F to +302°F)</li> <li>100 to +650°C (+212 to +1202°F)</li> </ul>
Accuracy	±2°C (±3.6°F) or ±2% of reading
Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors

P/N: 55001-0304

© 2015, FLIR Systems, Inc.  
#55001-0304; r. 24597; en-US

Measurement analysis	
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters

USB	
USB	<ul style="list-style-type: none"> <li>Control and image</li> </ul>
USB, standard	USB 2 HS
USB, connector type	<ul style="list-style-type: none"> <li>USB Mini-B</li> </ul>
USB, communication	TCP/IP socket-based FLIR proprietary
USB, image streaming	16-bit 640 × 480 pixels @ 25 Hz <ul style="list-style-type: none"> <li>Signal linear</li> <li>Temperature linear</li> <li>Radiometric</li> </ul>
USB, protocols	TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary and GenICam protocol
Ethernet, image streaming	16-bit 640 × 480 pixels @ 50 Hz 16-bit 640 × 240 pixels @ 100 Hz 16-bit 640 × 120 pixels @ 200 Hz <ul style="list-style-type: none"> <li>Signal linear</li> <li>Temperature linear</li> <li>Radiometric</li> </ul> GigE Vision and GenICam compatible
Ethernet, protocols	TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Digital input/output	
Digital input, purpose	Image tag (start, stop, general), Image flow control, (stream on/off), Input ext. device (programmatically read)
Digital input	2 opto-isolated, 0–1.5 V = low, 3–25 V = high
Digital output, purpose	Output to ext. device (programmatically set)
Digital output	2 opto-isolated, ON = supply (max. 100 mA), OFF = open
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	6–24 VDC, max. 200 mA
Digital I/O, connector type	6-pole jackable screw terminal

Power system	
External power operation	12/24 VDC, 24 W absolute max.
External power, connector type	2-pole jackable screw terminal
Voltage	Allowed range 10–30 VDC

**P/N: 55001-0304**

© 2015, FLIR Systems, Inc.  
#55001-0304; r. 24597; en-US

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> <li>• EN 61000-6-2:2001 (Immunity)</li> <li>• EN 61000-6-3:2001 (Emission)</li> <li>• FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 30 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	1.61 kg (3.55 lb.)
Camera size (L × W × H)	271 × 126 × 128 mm (10.7 × 5.0 × 5.0 in.)
Camera size, excl. lens (L × W × H)	203 × 73 × 75 mm (8.0 × 2.9 × 3.0 in.)
Tripod mounting	UNC ¼"-20 (on three sides)
Base mounting	2 × M4 thread mounting holes (on three sides)
Housing material	Aluminum
Comments to physical data	Outline dimensional drawings and STEP files can be found at <a href="http://support.flir.com">http://support.flir.com</a>

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Ethernet cable</li> <li>• FLIR ResearchIR Max 4 (licence only)</li> <li>• FLIR Tools download card</li> <li>• Hard transport case</li> <li>• Mains cable</li> <li>• Power cable, pig-tailed</li> <li>• Power supply</li> <li>• Printed documentation</li> <li>• USB cable</li> <li>• User documentation CD-ROM</li> </ul>
Packaging, weight	
Packaging, size	
EAN-13	7332558004715
UPC-12	845188004651
Country of origin	Sweden

**Supplies & accessories:**

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198065; IR lens, f=6.5 mm (80°) with case
- T198165; IR lens, f=88.9 mm (7°) with case and support for A6xx/A6xxsc
- T197896; High temp option +300°C to 2000°C (+572°F to 3632°F) for FLIR A6xxsc and T6xx
- 1910400; Power cord EU
- 1910401; Power cord US
- 1910402; Power cord UK
- T910922; Power supply, incl. multi plugs, for A3xx, A3xxsc, A6xx and A6xxsc
- T911182; Power supply for A3xx f, IP66
- 1910423; USB cable Std A <-> Mini-B
- T951004ACC; Ethernet cable CAT-6, 2m/6.6 ft.
- 1910586ACC; Power cable, pigtailed
- T197871ACC; Hard transport case for A3xx/A6xx series



---

**P/N: 55001-0304**

© 2015, FLIR Systems, Inc.  
#55001-0304; r. 24597; en-US

- T197870ACC; Cardboard box for A3xx/A6xx series
- T126889ACC; Filter holder for A6xx lenses
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

## P/N: 55001-0305

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 55001-0305  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
The FLIR A655sc is an excellent choice for those working in R&D and require the highest frame rates and 640 × 480 pixel resolution. When using the camera in R&D, it is highly recommended to use the FLIR ResearchIR software from FLIR Systems.	
The camera is equipped with a 80° lens.	
Key features:	
<ul style="list-style-type: none"> <li>Affordable.</li> <li>16-bit 640 × 480 pixel images at 50 Hz.</li> <li>Start-and-stop recording in FLIR ResearchIR using digital input.</li> <li>Windowing mode: 640 × 240 pixels at 100 Hz or 640 × 120 pixels at 200 Hz.</li> </ul>	
Typical applications:	
<ul style="list-style-type: none"> <li>Mid- or high-end industrial R&amp;D.</li> </ul>	
Imaging and optical data	
IR resolution	640 × 480 pixels
Thermal sensitivity/NETD	< 0.03°C @ +30°C (+86°F) / 30 mK
Field of view (FOV)	80° × 64.4° (92.8° diagonal)
Minimum focus distance	65 mm (2.6 in.)
Focal length	6.5 mm (0.26 in.)
Spatial resolution (IFOV)	2.62 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	50 Hz (100/200 Hz with windowing)
Focus	Automatic or manual (built in motor)
Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm
Detector time constant	Typical 8 ms
Measurement	
Object temperature range	<ul style="list-style-type: none"> <li>–40°C to +150°C (–40°F to +302°F)</li> <li>100 to +650°C (+212 to +1202°F)</li> </ul>
Accuracy	±2°C (±3.6°F) or ±2% of reading
Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature

**P/N: 55001-0305**

© 2015, FLIR Systems, Inc.  
#55001-0305; r. 24597; en-US

Measurement analysis	
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters
USB	
USB	<ul style="list-style-type: none"> <li>Control and image</li> </ul>
USB, standard	USB 2 HS
USB, connector type	<ul style="list-style-type: none"> <li>USB Mini-B</li> </ul>
USB, communication	TCP/IP socket-based FLIR proprietary
USB, image streaming	16-bit 640 × 480 pixels @ 25 Hz <ul style="list-style-type: none"> <li>Signal linear</li> <li>Temperature linear</li> <li>Radiometric</li> </ul>
USB, protocols	TCP, UDP, SNMP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP
Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary and GenICam protocol
Ethernet, image streaming	16-bit 640 × 480 pixels @ 50 Hz 16-bit 640 × 240 pixels @ 100 Hz 16-bit 640 × 120 pixels @ 200 Hz <ul style="list-style-type: none"> <li>Signal linear</li> <li>Temperature linear</li> <li>Radiometric</li> </ul> GigE Vision and GenICam compatible
Ethernet, protocols	TCP, UDP, SNMP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP
Digital input/output	
Digital input, purpose	Image tag (start, stop, general), Image flow control, (stream on/off), Input ext. device (programmatically read)
Digital input	2 opto-isolated, 0–1.5 V = low, 3–25 V = high
Digital output, purpose	Output to ext. device (programmatically set)
Digital output	2 opto-isolated, ON = supply (max. 100 mA), OFF = open
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	6–24 VDC, max. 200 mA
Digital I/O, connector type	6-pole jackable screw terminal
Power system	
External power operation	12/24 VDC, 24 W absolute max.
External power, connector type	2-pole jackable screw terminal
Voltage	Allowed range 10–30 VDC
Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)

**P/N: 55001-0305**

© 2015, FLIR Systems, Inc.  
#55001-0305; r. 24597; en-US

<b>Environmental data</b>	
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> <li>• EN 61000-6-2:2001 (Immunity)</li> <li>• EN 61000-6-3:2001 (Emission)</li> <li>• FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	IP 30 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

<b>Physical data</b>	
Weight	1.17 kg (2.58 lb.)
Camera size (L × W × H)	297 × 73 × 75 mm (11.7 × 2.9 × 3.0 in.)
Camera size, excl. lens (L × W × H)	203 × 73 × 75 mm (8.0 × 2.9 × 3.0 in.)
Tripod mounting	UNC ¼"-20 (on three sides)
Base mounting	2 × M4 thread mounting holes (on three sides)
Housing material	Aluminum
Comments to physical data	Outline dimensional drawings and STEP files can be found at <a href="http://support.flir.com">http://support.flir.com</a>

<b>Shipping information</b>	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera with lens</li> <li>• Ethernet cable</li> <li>• FLIR ResearchIR Max 4 (licence only)</li> <li>• FLIR Tools download card</li> <li>• Hard transport case</li> <li>• Mains cable</li> <li>• Power cable, pig-tailed</li> <li>• Power supply</li> <li>• Printed documentation</li> <li>• USB cable</li> <li>• User documentation CD-ROM</li> </ul>
Packaging, weight	
Packaging, size	
EAN-13	7332558006054
UPC-12	845188006266
Country of origin	Sweden

**Supplies & accessories:**

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198065; IR lens, f=6.5 mm (80°) with case
- T198165; IR lens, f=88.9 mm (7°) with case and support for A6xx/A6xxsc
- T197896; High temp option +300°C to 2000°C (+572°F to 3632°F) for FLIR A6xxsc and T6xx
- 1910400; Power cord EU
- 1910401; Power cord US
- 1910402; Power cord UK
- T910922; Power supply, incl. multi plugs, for A3xx, A3xxsc, A6xx and A6xxsc
- T911182; Power supply for A3xx f, IP66
- 1910423; USB cable Std A <-> Mini-B
- T951004ACC; Ethernet cable CAT-6, 2m/6.6 ft.
- 1910586ACC; Power cable, pigtailed
- T197871ACC; Hard transport case for A3xx/A6xx series
- T197870ACC; Cardboard box for A3xx/A6xx series
- T126889ACC; Filter holder for A6xx lenses
- T198584; FLIR Tools

---

**P/N: 55001-0305**

© 2015, FLIR Systems, Inc.  
#55001-0305; r. 24597; en-US

- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

# FLIR R&D series

---

## P/N: 65801-0101

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 65801-0101  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Detector/image	
Detector type	Focal plane array (FPA)
Sensor material	InSb
IR resolution	320 × 256
Detector pitch	30 µm
f-number	f/3
Optical interface	M80 thread
Lens identification	N/A
Windowing	160 × 128/64 × 120/80 × 64
Arbitrary size windowing (down to)	No
Arbitrary size windowing (steps)	N/A
Maximum image frequency (full frame)	190 Hz
Maximum image frequency	3040 Hz
Maximum frame rate	190 Hz @ 320 × 256 @ 8 µs 760 Hz @ 160 × 128 @ 8 µs 3040 Hz @ 64 × 120 @ 8 µs
Integration time range	1–20 000 µs
Integration time step	250 ns
Integration time mode	IWR/ITR
Digital output	GigE/Camlink base
Cooler type	Closed-cycle (rotary) Stirling cooler
Cooling temperature	77 K
Operability	>99.5%
Physical data	
Size (L × W × H)	253 mm × 130 mm × 168 mm (9.96" × 5.12" × 6.61") (without lens)
Weight without lens	4.950 kg (10.910 lb.) (without lens)
Tripod mounting	UNC ¼"-20
Power system	
Power supply	12 V DC (10–15 V DC)
Power consumption (cooldown/stab)	30 W/25 W
Environmental data	
Operating temperature range	–20°C/+50°C (–4°F/131°F)
Bump	Operational 25G, IEC 68-2-29

P/N: 65801-0101

© 2015, FLIR Systems, Inc.  
#65801-0101; r. 23380; en-US

<b>Environmental data</b>	
Vibration	Operational 2G, IEC 68-2-26
Encapsulation	IP 54 (IEC 60529)
<b>Radiometry/measurement</b>	
Spectral range	1.5–5.5 $\mu\text{m}$
Thermal sensitivity/NETD	<25 mK (20 mK typical)
CNUCTM/HypercalTM	Yes
CLUT/extended linear response	No
Temperature measurement accuracy	$\pm 1^{\circ}\text{C}$ ( $1.8^{\circ}\text{F}$ ) or $\pm 1\%$
Maximum temperature without filter	300°C (572°F)
Well capacity (e-)	5 Me-
Filter wheel	4 slots for 1" filter 1 mm thick
Filter holding	Screw-in holder
<b>Timings and signals</b>	
SYNC IN	LVTTL
SYNC IN jitter	100 ns
SYNC IN active edge	Falling or rising edge
Delay between SYNC IN and integration	1100–1200 ns
Delay between SYNC IN and top frame	0.768 $\mu\text{s}$
Analog signals	1 $\times$ (–5 to 5 V) + 2 $\times$ (0–10 V)
TRIGGER IN	LVTTL
Video output	PAL or NTSC/composite or S-Video
Waveform generator	N/A
<b>Ethernet</b>	
GigE Vision	Yes
<b>Camera link</b>	
Connector type	1 $\times$ MDR26
Tap number	1 (A/B)
Bit depth	16 bpp
<b>Radio</b>	
Wi-Fi	N/A
Antenna	N/A
<b>Shipping information</b>	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558007952
UPC-12	845188008314
Country of origin	Sweden
<b>Lenses</b>	
Available optic 1	L0315 12 mm f/2
Available optic 2	L0116 25 mm f/2
Available optic 3	L0106 50 mm f/2
Available optic 4	L0118 100 mm f/2
Available optic 5	L0804 200 mm f/2
Available optic 6	L0120 Close up x1 f/2





**P/N: 65801-0101**

© 2015, FLIR Systems, Inc.  
#65801-0101; r. 23380; en-US

Lenses	
Available optic 7	L0120E Close up x3 f/2
Available optic 8	L0905 Close up x1 wd 30cm
Available optic 9	L0709T 27 mm BB f/3
Available optic 10	L0608T 50 mm BB f/3
Available optic 11	L0604T 100 mm BB f/3
Available optic 12	L0701 200 mm BB f/3
Available optic 13	

## P/N: 65801-0202

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 65801-0202  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Detector/image	
Detector type	Focal plane array (FPA)
Sensor material	InSb
IR resolution	320 × 256
Detector pitch	30 µm
f-number	f/3
Optical interface	M80 thread
Lens identification	N/A
Windowing	160 × 128/64 × 128
Arbitrary size windowing (down to)	64 × 4
Arbitrary size windowing (steps)	Horizontal: ≥48, steps of 16 pixels Vertical: ≥4, steps of 2 pixels
Maximum image frequency (full frame)	383 Hz
Maximum image frequency	31740 Hz
Maximum frame rate	383 Hz @ 320 × 256 @ 8 µs 1250 Hz @ 160 × 128 @ 8 µs 3590 Hz @ 80 × 64 @ 8 µs 31740 Hz @ 48 × 4 @ 8 µs
Integration time range	1–20 000 µs
Integration time step	250 ns
Integration time mode	IWR/ITR
Digital output	GigE/Camlink base
Cooler type	Closed-cycle (rotary) Stirling cooler
Cooling temperature	77 K
Operability	>99.5%
Physical data	
Size (L × W × H)	253 mm × 130 mm × 168 mm (9.96" × 5.12" × 6.61") (without lens)
Weight without lens	4.950 kg (10.910 lb.) (without lens)
Tripod mounting	UNC ¼"-20
Power system	
Power supply	12 V DC (10–15 V DC)
Power consumption (cooldown/stab)	30 W/25 W

**P/N: 65801-0202**

© 2015, FLIR Systems, Inc.  
#65801-0202; r. 23380; en-US

<b>Environmental data</b>	
Operating temperature range	–20°C/+50°C (–4°F/131°F)
Bump	Operational 25G, IEC 68-2-29
Vibration	Operational 2G, IEC 68-2-26
Encapsulation	IP 54 (IEC 60529)
<b>Radiometry/measurement</b>	
Spectral range	1.5–5.5 µm
Thermal sensitivity/NETD	<25 mK (20 mK typical)
CNUCTM/HypercalTM	Yes
CLUT/extended linear response	No
Temperature measurement accuracy	±1°C (1.8°F) or ±1%
Maximum temperature without filter	300°C (572°F)
Well capacity (e-)	21 Me- in ITR 16 Me- in IWR
Filter wheel	4 slots for 1" filter 1 mm thick
Filter holding	Screw-in holder
<b>Timings and signals</b>	
SYNC IN	LVTTL
SYNC IN jitter	100 ns
SYNC IN active edge	Falling or rising edge
Delay between SYNC IN and integration	1100–1200 ns
Delay between SYNC IN and top frame	0.768 µs
Analog signals	1 × (–5 to 5 V) + 2 × (0–10 V)
TRIGGER IN	LVTTL
Video output	PAL or NTSC/composite or S-Video
Waveform generator	N/A
<b>Ethernet</b>	
GigE Vision	Yes
<b>Camera link</b>	
Connector type	1 × MDR26
Tap number	1 (A/B)
Bit depth	16 bpp
<b>Radio</b>	
Wi-Fi	N/A
Antenna	N/A
<b>Shipping information</b>	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558007969
UPC-12	845188008321
Country of origin	Sweden
<b>Lenses</b>	
Available optic 1	L0315 12 mm f/2
Available optic 2	L0116 25 mm f/2
Available optic 3	L0106 50 mm f/2
Available optic 4	L0118 100 mm f/2



**P/N: 65801-0202**

© 2015, FLIR Systems, Inc.  
#65801-0202; r. 23380; en-US

Lenses	
Available optic 5	L0804 200 mm f/2
Available optic 6	L0120 Close up x1 f/2
Available optic 7	L0120E Close up x3 f/2
Available optic 8	L0905 Close up x1 wd 30cm
Available optic 9	L0709T 27 mm BB f/3
Available optic 10	L0608T 50 mm BB f/3
Available optic 11	L0604T 100 mm BB f/3
Available optic 12	L0701 200 mm BB f/3
Available optic 13	

## P/N: 65901-0101

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 65901-0101  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Detector/image	
Detector type	Focal plane array (FPA)
Sensor material	MCT
IR resolution	320 × 256
Detector pitch	30 µm
f-number	f/2 or f/4
Optical interface	M80 thread
Lens identification	N/A
Windowing	160 × 128/80 × 64
Arbitrary size windowing (down to)	
Arbitrary size windowing (steps)	Horizontal: ≥64 steps of 4 pixels Vertical: ≥3 steps
Maximum image frequency (full frame)	235 Hz
Maximum image frequency	32780 Hz
Maximum frame rate	235 Hz @ 320 × 256 @ 8 µs 915 Hz @ 160 × 128 @ 8 µs 3420 Hz @ 80 × 64 @ 8 µs 32 780 Hz @ 64 × 3 @ 8 µs
Integration time range	10–20 000 µs
Integration time step	250 ns
Integration time mode	ITR
Digital output	GigE/Camlink base
Cooler type	Closed-cycle (rotary) Stirling cooler
Cooling temperature	90 K
Operability	>99%
Physical data	
Size (L × W × H)	253 mm × 130 mm × 168 mm (9.96" × 5.12" × 6.61") (without lens)
Weight without lens	4.950 kg (10.910 lb.) (without lens)
Tripod mounting	UNC ¼"-20
Power system	
Power supply	12 V DC (10–15 V DC)
Power consumption (cooldown/stab)	30 W/25 W

P/N: 65901-0101

© 2015, FLIR Systems, Inc.  
#65901-0101; r. 23380; en-US

<b>Environmental data</b>	
Operating temperature range	–20°C/+50°C (–4°F/131°F)
Bump	Operational 25G, IEC 68-2-29
Vibration	Operational 2G, IEC 68-2-26
Encapsulation	IP 54 (IEC 60529)
<b>Radiometry/measurement</b>	
Spectral range	7.7–9.3 µm
Thermal sensitivity/NETD	
CNUCTM/HypercalTM	Yes
CLUT/extended linear response	No
Temperature measurement accuracy	±1°C (1.8°F) or ±1%
Maximum temperature without filter	150°C (302°F)
Well capacity (e-)	37 Me-/12 Me- (37 Me- default)
Filter wheel	4 slots for 1" filter 1 mm thick
Filter holding	Screw-in holder
<b>Timings and signals</b>	
SYNC IN	LVTTL
SYNC IN jitter	
SYNC IN active edge	Falling or rising edge
Delay between SYNC IN and integration	2 µs
Delay between SYNC IN and top frame	200 ns
Analog signals	1 × (–5 to 5 V) + 2 × (0–10 V)
TRIGGER IN	LVTTL
Video output	PAL or NTSC/composite or S-Video
Waveform generator	N/A
<b>Ethernet</b>	
GigE Vision	Yes
<b>Camera link</b>	
Connector type	1 × MDR26
Tap number	1 (A/B)
Bit depth	16 bpp
<b>Radio</b>	
Wi-Fi	N/A
Antenna	N/A
<b>Shipping information</b>	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558007976
UPC-12	845188008338
Country of origin	Sweden
<b>Lenses</b>	
Available optic 1	L0306V 12 mm f/2
Available optic 2	L0324V 25 mm f/2
Available optic 3	L0302V 50 mm f/2
Available optic 4	



P/N: 65901-0101  
© 2015, FLIR Systems, Inc.  
#65901-0101; r. 23380; en-US

Lenses	
Available optic 5	
Available optic 6	L0201V 100 mm f/2
Available optic 7	L0113TV 200 mm f/2
Available optic 8	L0215V Close up x1 f/2
Available optic 9	L0215E Close up x3 f/2
Available optic 10	
Available optic 11	
Available optic 12	
Available optic 13	

## P/N: 66001-0101

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 66001-0101  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Detector/image	
Detector type	Focal plane array (FPA)
Sensor material	MCT
IR resolution	320 × 256
Detector pitch	30 µm
f-number	f/2 or f/4
Optical interface	M80 thread
Lens identification	N/A
Windowing	160 × 128/80 × 64
Arbitrary size windowing (down to)	64 × 3
Arbitrary size windowing (steps)	Horizontal: ≥64 steps of 4 pixels Vertical: ≥3 steps
Maximum image frequency (full frame)	235 Hz
Maximum image frequency	32780 Hz
Maximum frame rate	235 Hz @ 320 × 256 @ 8 µs 915 Hz @ 160 × 128 @ 8 µs 3420 Hz @ 80 × 64 @ 8 µs 32780 Hz @ 64 × 3 @ 8 µs
Integration time range	10–20 000 µs
Integration time step	250 ns
Integration time mode	ITR
Digital output	GigE/Camlink base
Cooler type	Closed-cycle (rotary) Stirling cooler
Cooling temperature	90 K
Operability	>99%
Physical data	
Size (L × W × H)	253 mm × 130 mm × 168 mm (9.96" × 5.12" × 6.61") (without lens)
Weight without lens	4.950 kg (10.910 lb.) (without lens)
Tripod mounting	UNC ¼"-20
Power system	
Power supply	12 V DC (10–15 V DC)
Power consumption (cooldown/stab)	30 W/25 W



**P/N: 66001-0101**

© 2015, FLIR Systems, Inc.  
#66001-0101; r. 23380; en-US

<b>Environmental data</b>	
Operating temperature range	–20°C/+50°C (–4°F/131°F)
Bump	Operational 25G, IEC 68-2-29
Vibration	Operational 2G, IEC 68-2-26
Encapsulation	IP 54 (IEC 60529)
<b>Radiometry/measurement</b>	
Spectral range	3.7–4.8 µm
Thermal sensitivity/NETD	<20 mK
CNUCTM/HypercalTM	Yes
CLUT/extended linear response	No
Temperature measurement accuracy	±1°C (1.8°F) or ±1%
Maximum temperature without filter	150°C (302°F)
Well capacity (e-)	37 Me-/12 Me- (12 Me- default)
Filter wheel	4 slots for 1" filter 1 mm thick
Filter holding	Screw-in holder
<b>Timings and signals</b>	
SYNC IN	LVTTTL
SYNC IN jitter	200 ns
SYNC IN active edge	Falling or rising edge
Delay between SYNC IN and integration	2 µs
Delay between SYNC IN and top frame	200 ns
Analog signals	1 × (–5 to 5 V) + 2 × (0–10 V)
TRIGGER IN	LVTTTL
Video output	PAL or NTSC/composite or S-Video
Waveform generator	N/A
<b>Ethernet</b>	
GigE Vision	Yes
<b>Camera link</b>	
Connector type	1 × MDR26
Tap number	1 (A/B)
Bit depth	16 bpp
<b>Radio</b>	
Wi-Fi	N/A
Antenna	N/A
<b>Shipping information</b>	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558007983
UPC-12	845188008345
Country of origin	Sweden
<b>Lenses</b>	
Available optic 1	L0315 12 mm f/2
Available optic 2	L0116 25 mm f/2
Available optic 3	L0106 50 mm f/2
Available optic 4	L0118 100 mm f/2



P/N: 66001-0101  
© 2015, FLIR Systems, Inc.  
#66001-0101; r. 23380; en-US

Lenses	
Available optic 5	L0804 200 mm f/2
Available optic 6	L0120 Close up x1 f/2
Available optic 7	L0120E Close up x3 f/2
Available optic 8	L0905 Close up x1 wd 30cm
Available optic 9	
Available optic 10	
Available optic 11	
Available optic 12	
Available optic 13	

## P/N: 66101-0101

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 66101-0101  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Detector/image	
Detector type	Focal plane array (FPA)
Sensor material	InSb
IR resolution	640 × 512
Detector pitch	15 µm
f-number	f/3
Optical interface	M80 thread
Lens identification	N/A
Windowing	320 × 256/160 × 128
Arbitrary size windowing (down to)	48 × 4
Arbitrary size windowing (steps)	Horizontal: ≥48, steps of 16 pixels Vertical: ≥4, steps of 4 pixels
Maximum image frequency (full frame)	100 Hz
Maximum image frequency	3425 Hz
Maximum frame rate	100 Hz @ 640 × 512 @ 20 µs/IWR 328 @ 320 × 256 @ 20 µs/IWR 870 Hz @ 160 × 128 @ 10 µs/IWR 3425 Hz @ 48 × 4 @ 10 µs/IWR
Integration time range	0.1–20 000 µs
Integration time step	200 ns
Integration time mode	IWR/ITR
Digital output	GigE/Camlink base
Cooler type	Closed-cycle (rotary) Stirling cooler
Cooling temperature	77 K
Operability	>99.5%
Physical data	
Size (L × W × H)	253 mm × 130 mm × 168 mm (9.96" × 5.12" × 6.61") (without lens)
Weight without lens	4.950 kg (10.910 lb.) (without lens)
Tripod mounting	UNC ¼"-20
Power system	
Power supply	12 V DC (10–15 V DC)
Power consumption (cooldown/stab)	30 W/25 W

**P/N: 66101-0101**

© 2015, FLIR Systems, Inc.  
#66101-0101; r. 23380; en-US

<b>Environmental data</b>	
Operating temperature range	–20°C/+50°C (–4°F/131°F)
Bump	Operational 25G, IEC 68-2-29
Vibration	Operational 2G, IEC 68-2-26
Encapsulation	IP 54 (IEC 60529)
<b>Radiometry/measurement</b>	
Spectral range	1.5–5.5 µm
Thermal sensitivity/NETD	<25 mK (20 mK typical)
CNUCTM/HypercalTM	Yes
CLUT/extended linear response	No
Temperature measurement accuracy	±1°C (1.8°F) or ±1%
Maximum temperature without filter	300°C (572°F)
Well capacity (e-)	7 Me-
Filter wheel	4 slots for 1" filter 1 mm thick
Filter holding	Screw-in holder
<b>Timings and signals</b>	
SYNC IN	LVTTL
SYNC IN jitter	
SYNC IN active edge	Falling or rising edge
Delay between SYNC IN and integration	2.2–2.4 µs ITR
Delay between SYNC IN and top frame	1.8–2 µs ITR and IWR
Analog signals	1 × (–5 to 5 V) + 2 × (0–10 V)
TRIGGER IN	LVTTL
Video output	PAL or NTSC/composite or S-Video
Waveform generator	N/A
<b>Ethernet</b>	
GigE Vision	Yes
<b>Camera link</b>	
Connector type	1 × MDR26
Tap number	1 (A/B)
Bit depth	16 bpp
<b>Radio</b>	
Wi-Fi	N/A
Antenna	N/A
<b>Shipping information</b>	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558007990
UPC-12	845188008352
Country of origin	Sweden
<b>Lenses</b>	
Available optic 1	L0315 12 mm f/2
Available optic 2	L0116 25 mm f/2
Available optic 3	L0106 50 mm f/2
Available optic 4	L0118 100 mm f/2



**P/N: 66101-0101**

© 2015, FLIR Systems, Inc.  
#66101-0101; r. 23380; en-US

Lenses	
Available optic 5	L0804 200 mm f/2
Available optic 6	L0120 Close up x1 f/2
Available optic 7	L0120E Close up x3 f/2
Available optic 8	L0905 Close up x1 wd 30cm
Available optic 9	L0709T 27 mm BB f/3
Available optic 10	L0608T 50 mm BB f/3
Available optic 11	L0604T 100 mm BB f/3
Available optic 12	L0701 200 mm BB f/3
Available optic 13	

**P/N: 66103-0202**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 66103-0202  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Detector/image	
Detector type	Focal plane array (FPA)
Sensor material	InSb
IR resolution	640 × 512
Detector pitch	15 µm
f-number	f/3
Optical interface	M80 thread
Lens identification	N/A
Windowing	320 × 256/160 × 128
Arbitrary size windowing (down to)	48 × 4
Arbitrary size windowing (steps)	Horizontal: ≥48, steps of 16 pixels Vertical: ≥4, steps of 4 pixels
Maximum image frequency (full frame)	100 Hz
Maximum image frequency	3425 Hz
Maximum frame rate	100 Hz @ 640 × 512 @ 20 µs/IWR 328 @ 320 × 256 @ 20 µs/IWR 870 Hz @ 160 × 128 @ 10 µs/IWR 3425 Hz @ 48 × 4 @ 10 µs/IWR
Integration time range	0.1–20 000 µs
Integration time step	200 ns
Integration time mode	IWR/ITR
Digital output	GigE/Camlink base
Cooler type	Closed-cycle (rotary) Stirling cooler
Cooling temperature	77 K
Operability	>99.5%
Physical data	
Size (L × W × H)	253 mm × 130 mm × 168 mm (9.96" × 5.12" × 6.61") (without lens)
Weight without lens	4.950 kg (10.910 lb.) (without lens)
Tripod mounting	UNC ¼"-20
Power system	
Power supply	12 V DC (10–15 V DC)
Power consumption (cooldown/stab)	30 W/25 W

**P/N: 66103-0202**

© 2015, FLIR Systems, Inc.  
#66103-0202; r. 23380; en-US

<b>Environmental data</b>	
Operating temperature range	–20°C/+50°C (–4°F/131°F)
Bump	Operational 25G, IEC 68-2-29
Vibration	Operational 2G, IEC 68-2-26
Encapsulation	IP 54 (IEC 60529)
<b>Radiometry/measurement</b>	
Spectral range	1.5–5.5 µm
Thermal sensitivity/NETD	<25 mK (20 mK typical)
CNUCTM/HypercalTM	Yes
CLUT/extended linear response	No
Temperature measurement accuracy	±1°C (1.8°F) or ±1%
Maximum temperature without filter	300°C (572°F)
Well capacity (e-)	7 Me-
Filter wheel	4 slots for 1" filter 1 mm thick
Filter holding	Screw-in holder
<b>Timings and signals</b>	
SYNC IN	LVTTL
SYNC IN jitter	
SYNC IN active edge	Falling or rising edge
Delay between SYNC IN and integration	2.2–2.4 µs ITR
Delay between SYNC IN and top frame	1.8–2 µs ITR and IWR
Analog signals	1 × (–5 to 5 V) + 2 × (0–10 V)
TRIGGER IN	LVTTL
Video output	PAL or NTSC/composite or S-Video
Waveform generator	N/A
<b>Ethernet</b>	
GigE Vision	Yes
<b>Camera link</b>	
Connector type	1 × MDR26
Tap number	1 (A/B)
Bit depth	16 bpp
<b>Radio</b>	
Wi-Fi	N/A
Antenna	N/A
<b>Shipping information</b>	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558008003
UPC-12	845188008369
Country of origin	Sweden
<b>Lenses</b>	
Available optic 1	L0315 12 mm f/2
Available optic 2	L0116 25 mm f/2
Available optic 3	L0106 50 mm f/2
Available optic 4	L0118 100 mm f/2



**P/N: 66103-0202**

© 2015, FLIR Systems, Inc.  
#66103-0202; r. 23380; en-US

Lenses	
Available optic 5	L0804 200 mm f/2
Available optic 6	L0120 Close up x1 f/2
Available optic 7	L0120E Close up x3 f/2
Available optic 8	L0905 Close up x1 wd 30cm
Available optic 9	L0709T 27 mm BB f/3
Available optic 10	L0608T 50 mm BB f/3
Available optic 11	L0604T 100 mm BB f/3
Available optic 12	L0701 200 mm BB f/3
Available optic 13	



## P/N: 66201-0101

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 66201-0101  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Detector/image	
Detector type	Focal plane array (FPA)
Sensor material	InSb
IR resolution	640 × 512
Detector pitch	15 µm
f-number	f/2.5 or f/4
Optical interface	M80 thread
Lens identification	N/A
Windowing	320 × 256/160 × 128
Arbitrary size windowing (down to)	48 × 4
Arbitrary size windowing (steps)	Horizontal: ≥48, steps of 16 pixels Vertical: ≥4, steps of 4 pixels
Maximum image frequency (full frame)	100 Hz
Maximum image frequency	3425 Hz
Maximum frame rate	100 Hz @ 640 × 512 @ 20 µs/IWR 328 @ 320 × 256 @ 20 µs/IWR 870 Hz @ 160 × 128 @ 10 µs/IWR 3425 Hz @ 48 × 4 @ 10 µs/IWR
Integration time range	0.4–20 000 µs
Integration time step	200 ns
Integration time mode	IWR/ITR
Digital output	GigE/Camlink base
Cooler type	Closed-cycle (rotary) Stirling cooler
Cooling temperature	77 K
Operability	>99.5%
Physical data	
Size (L × W × H)	253 mm × 130 mm × 168 mm (9.96" × 5.12" × 6.61") (without lens)
Weight without lens	4.950 kg (10.910 lb.) (without lens)
Tripod mounting	UNC ¼"-20
Power system	
Power supply	12 V DC (10–15 V DC)
Power consumption (cooldown/stab)	30 W/25 W

**P/N: 66201-0101**

© 2015, FLIR Systems, Inc.  
#66201-0101; r. 23380; en-US

<b>Environmental data</b>	
Operating temperature range	–20°C/+50°C (–4°F/131°F)
Bump	Operational 25G, IEC 68-2-29
Vibration	Operational 2G, IEC 68-2-26
Encapsulation	IP 54 (IEC 60529)
<b>Radiometry/measurement</b>	
Spectral range	1.5–5.5 µm
Thermal sensitivity/NETD	<25 mK (20 mK typical)
CNUCTM/HypercalTM	Yes
CLUT/extended linear response	No
Temperature measurement accuracy	±1°C (1.8°F) or ±1%
Maximum temperature without filter	300°C (572°F)
Well capacity (e-)	7 Me-
Filter wheel	4 slots for 1" filter 1 mm thick
Filter holding	Screw-in holder
<b>Timings and signals</b>	
SYNC IN	LVTTL
SYNC IN jitter	
SYNC IN active edge	
Delay between SYNC IN and integration	
Delay between SYNC IN and top frame	
Analog signals	1 × (–5 to 5 V) + 2 × (0–10 V)
TRIGGER IN	LVTTL
Video output	PAL or NTSC/composite or S-Video
Waveform generator	N/A
<b>Ethernet</b>	
GigE Vision	Yes
<b>Camera link</b>	
Connector type	1 × MDR26
Tap number	1 (A/B)
Bit depth	16 bpp
<b>Radio</b>	
Wi-Fi	N/A
Antenna	N/A
<b>Shipping information</b>	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558008010
UPC-12	845188008376
Country of origin	Sweden
<b>Lenses</b>	
Available optic 1	L0315 12 mm f/2
Available optic 2	L0116 25 mm f/2
Available optic 3	L0106 50 mm f/2
Available optic 4	L0118 100 mm f/2



P/N: 66201-0101  
© 2015, FLIR Systems, Inc.  
#66201-0101; r. 23380; en-US

Lenses	
Available optic 5	L0804 200 mm f/2
Available optic 6	L0120 Close up x1 f/2
Available optic 7	L0120E Close up x3 f/2
Available optic 8	L0905 Close up x1 wd 30cm
Available optic 9	
Available optic 10	
Available optic 11	
Available optic 12	
Available optic 13	

## P/N: 66202-0202

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 66202-0202  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Detector/image	
Detector type	Focal plane array (FPA)
Sensor material	InSb
IR resolution	640 × 512
Detector pitch	15 µm
f-number	f/2.5 or f/4
Optical interface	M80 thread
Lens identification	N/A
Windowing	320 × 256/160 × 128
Arbitrary size windowing (down to)	48 × 4
Arbitrary size windowing (steps)	Horizontal: ≥48, steps of 16 pixels Vertical: ≥4, steps of 4 pixels
Maximum image frequency (full frame)	100 Hz
Maximum image frequency	3425 Hz
Maximum frame rate	100 Hz @ 640 × 512 @ 20 µs/IWR 328 @ 320 × 256 @ 20 µs/IWR 870 Hz @ 160 × 128 @ 10 µs/IWR 3425 Hz @ 48 × 4 @ 10 µs/IWR
Integration time range	0.4–20 000 µs
Integration time step	200 ns
Integration time mode	IWR/ITR
Digital output	GigE/Camlink base
Cooler type	Closed-cycle (rotary) Stirling cooler
Cooling temperature	77 K
Operability	>99.5%
Physical data	
Size (L × W × H)	253 mm × 130 mm × 168 mm (9.96" × 5.12" × 6.61") (without lens)
Weight without lens	4.950 kg (10.910 lb.) (without lens)
Tripod mounting	UNC ¼"-20
Power system	
Power supply	12 V DC (10–15 V DC)
Power consumption (cooldown/stab)	30 W/25 W

**P/N: 66202-0202**

© 2015, FLIR Systems, Inc.  
#66202-0202; r. 23380; en-US

<b>Environmental data</b>	
Operating temperature range	–20°C/+50°C (–4°F/131°F)
Bump	Operational 25G, IEC 68-2-29
Vibration	Operational 2G, IEC 68-2-26
Encapsulation	IP 54 (IEC 60529)
<b>Radiometry/measurement</b>	
Spectral range	1.5–5.5 µm
Thermal sensitivity/NETD	<25 mK (20 mK typical)
CNUCTM/HypercalTM	Yes
CLUT/extended linear response	No
Temperature measurement accuracy	±1°C (1.8°F) or ±1%
Maximum temperature without filter	300°C (572°F)
Well capacity (e-)	7 Me-
Filter wheel	4 slots for 1" filter 1 mm thick
Filter holding	Screw-in holder
<b>Timings and signals</b>	
SYNC IN	LVTTL
SYNC IN jitter	
SYNC IN active edge	
Delay between SYNC IN and integration	
Delay between SYNC IN and top frame	
Analog signals	1 × (–5 to 5 V) + 2 × (0–10 V)
TRIGGER IN	LVTTL
Video output	PAL or NTSC/composite or S-Video
Waveform generator	N/A
<b>Ethernet</b>	
GigE Vision	Yes
<b>Camera link</b>	
Connector type	1 × MDR26
Tap number	1 (A/B)
Bit depth	16 bpp
<b>Radio</b>	
Wi-Fi	N/A
Antenna	N/A
<b>Shipping information</b>	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558008034
UPC-12	845188008383
Country of origin	Sweden
<b>Lenses</b>	
Available optic 1	L0315 12 mm f/2
Available optic 2	L0116 25 mm f/2
Available optic 3	L0106 50 mm f/2
Available optic 4	L0118 100 mm f/2



P/N: 66202-0202  
© 2015, FLIR Systems, Inc.  
#66202-0202; r. 23380; en-US

Lenses	
Available optic 5	L0804 200 mm f/2
Available optic 6	L0120 Close up x1 f/2
Available optic 7	L0120E Close up x3 f/2
Available optic 8	L0905 Close up x1 wd 30cm
Available optic 9	
Available optic 10	
Available optic 11	
Available optic 12	
Available optic 13	

## P/N: 66301-0101

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 66301-0101  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Detector/image	
Detector type	Focal plane array (FPA)
Sensor material	MCT
IR resolution	640 × 512
Detector pitch	15 µm
f-number	f/3
Optical interface	M80 thread
Lens identification	N/A
Windowing	320 × 256/160 × 128
Arbitrary size windowing (down to)	132 × 3
Arbitrary size windowing (steps)	Horizontal: ≥132 steps of 4 pixels Vertical: ≥3 steps
Maximum image frequency (full frame)	115 Hz
Maximum image frequency	2939 Hz
Maximum frame rate	115 Hz @ 640 × 512 @ 20 µs/IWR 412 Hz @ 320 × 256 @ 20 µs/IWR 1165 Hz @ 160 × 128 @ 10 µs/IWR 2939 Hz @ 132 × 3 @ 10 µs/IWR
Integration time range	1–20 000 µs
Integration time step	200 ns
Integration time mode	ITR/IWR
Digital output	GigE/Camlink base
Cooler type	Closed-cycle (rotary) Stirling cooler
Cooling temperature	90 K
Operability	>99%
Physical data	
Size (L × W × H)	253 mm × 130 mm × 168 mm (9.96" × 5.12" × 6.61") (without lens)
Weight without lens	4.950 kg (10.910 lb.) (without lens)
Tripod mounting	UNC ¼"-20
Power system	
Power supply	12 V DC (10–15 V DC)
Power consumption (cooldown/stab)	30 W/25 W

**P/N: 66301-0101**

© 2015, FLIR Systems, Inc.  
#66301-0101; r. 23380; en-US

<b>Environmental data</b>	
Operating temperature range	–20°C/+50°C (–4°F/131°F)
Bump	Operational 25G, IEC 68-2-29
Vibration	Operational 2G, IEC 68-2-26
Encapsulation	IP 54 (IEC 60529)
<b>Radiometry/measurement</b>	
Spectral range	1.5–5.5 µm
Thermal sensitivity/NETD	<25 mK (18 mK typical)
CNUCTM/HypercalTM	Yes
CLUT/extended linear response	No
Temperature measurement accuracy	±1°C (1.8°F) or ±1%
Maximum temperature without filter	150°C (302°F)
Well capacity (e-)	6.36 Me- (ITR) 4.99 Me- (IWR)
Filter wheel	4 slots for 1" filter 1 mm thick
Filter holding	Screw-in holder
<b>Timings and signals</b>	
SYNC IN	LVTTL
SYNC IN jitter	
SYNC IN active edge	Falling or rising edge
Delay between SYNC IN and integration	1.05 µs (jitter ±50 ns)
Delay between SYNC IN and top frame	1.05 µs (jitter ±50 ns)
Analog signals	1 × (–5 to 5 V) + 2 × (0–10 V)
TRIGGER IN	LVTTL
Video output	PAL or NTSC/composite or S-Video
Waveform generator	N/A
<b>Ethernet</b>	
GigE Vision	Yes
<b>Camera link</b>	
Connector type	1 × MDR26
Tap number	1 (A/B)
Bit depth	16 bpp
<b>Radio</b>	
Wi-Fi	N/A
Antenna	N/A
<b>Shipping information</b>	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558008041
UPC-12	845188008390
Country of origin	Sweden
<b>Lenses</b>	
Available optic 1	L0315 12 mm f/2
Available optic 2	L0116 25 mm f/2
Available optic 3	L0106 50 mm f/2
Available optic 4	L0118 100 mm f/2





P/N: 66301-0101  
© 2015, FLIR Systems, Inc.  
#66301-0101; r. 23380; en-US

Lenses	
Available optic 5	L0804 200 mm f/2
Available optic 6	L0120 Close up x1 f/2
Available optic 7	L0120E Close up x3 f/2
Available optic 8	L0905 Close up x1 wd 30cm
Available optic 9	L0709T 27 mm BB f/3
Available optic 10	L0608T 50 mm BB f/3
Available optic 11	L0604T 100 mm BB f/3
Available optic 12	L0701 200 mm BB f/3
Available optic 13	

## P/N: 66401-0101

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 66401-0101  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Detector/image	
Detector type	Focal plane array (FPA)
Sensor material	MCT
IR resolution	640 × 512
Detector pitch	15 µm
f-number	f/2 or f/4
Optical interface	M80 thread
Lens identification	N/A
Windowing	320 × 256/160 × 128
Arbitrary size windowing (down to)	132 × 3
Arbitrary size windowing (steps)	Horizontal: ≥132 steps of 4 pixels Vertical: ≥3 steps
Maximum image frequency (full frame)	115 Hz
Maximum image frequency	2939 Hz
Maximum frame rate	115 Hz @ 640 × 512 @ 20 µs/IWR 412 Hz @ 320 × 256 @ 20 µs/IWR 1165 Hz @ 160 × 128 @ 10 µs/IWR 2939 Hz @ 132 × 3 @ 10 µs/IWR
Integration time range	1–20 000 µs
Integration time step	200 ns
Integration time mode	ITR/IWR
Digital output	GigE/Camlink base
Cooler type	Closed-cycle (rotary) Stirling cooler
Cooling temperature	90 K
Operability	>99%
Physical data	
Size (L × W × H)	253 mm × 130 mm × 168 mm (9.96" × 5.12" × 6.61") (without lens)
Weight without lens	4.950 kg (10.910 lb.) (without lens)
Tripod mounting	UNC ¼"-20
Power system	
Power supply	12 V DC (10–15 V DC)
Power consumption (cooldown/stab)	30 W/25 W

P/N: 66401-0101

© 2015, FLIR Systems, Inc.  
#66401-0101; r. 23380; en-US

<b>Environmental data</b>	
Operating temperature range	–20°C/+50°C (–4°F/131°F)
Bump	Operational 25G, IEC 68-2-29
Vibration	Operational 2G, IEC 68-2-26
Encapsulation	IP 54 (IEC 60529)
<b>Radiometry/measurement</b>	
Spectral range	3.7–4.8 µm
Thermal sensitivity/NETD	<25 mK (18 mK typical)
CNUCTM/HypercalTM	Yes
CLUT/extended linear response	No
Temperature measurement accuracy	±1°C (1.8°F) or ±1%
Maximum temperature without filter	150°C (302°F)
Well capacity (e-)	6.36 Me- (ITR) 4.99 Me- (IWR)
Filter wheel	4 slots for 1" filter 1 mm thick
Filter holding	Screw-in holder
<b>Timings and signals</b>	
SYNC IN	LVTTL
SYNC IN jitter	200 ns
SYNC IN active edge	Falling or rising edge
Delay between SYNC IN and integration	1.05 µs (jitter ±50 ns)
Delay between SYNC IN and top frame	1.05 µs (jitter ±50 ns)
Analog signals	1 × (–5 to 5 V) + 2 × (0–10 V)
TRIGGER IN	LVTTL
Video output	PAL or NTSC/composite or S-Video
Waveform generator	N/A
<b>Ethernet</b>	
GigE Vision	Yes
<b>Camera link</b>	
Connector type	1 × MDR26
Tap number	1 (A/B)
Bit depth	16 bpp
<b>Radio</b>	
Wi-Fi	N/A
Antenna	N/A
<b>Shipping information</b>	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558008058
UPC-12	845188008406
Country of origin	Sweden
<b>Lenses</b>	
Available optic 1	L0315 12 mm f/2
Available optic 2	L0116 25 mm f/2
Available optic 3	L0106 50 mm f/2
Available optic 4	L0118 100 mm f/2



P/N: 66401-0101  
© 2015, FLIR Systems, Inc.  
#66401-0101; r. 23380; en-US

Lenses	
Available optic 5	L0804 200 mm f/2
Available optic 6	L0120 Close up x1 f/2
Available optic 7	L0120E Close up x3 f/2
Available optic 8	L0905 Close up x1 wd 30cm
Available optic 9	
Available optic 10	
Available optic 11	
Available optic 12	
Available optic 13	

## P/N: 66501-0101

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 66501-0101  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Detector/image	
Detector type	Focal plane array (FPA)
Sensor material	MCT
IR resolution	640 × 512
Detector pitch	16µm
f-number	f/2
Optical interface	M80 thread
Lens identification	N/A
Windowing	320 × 256/160 × 128
Arbitrary size windowing (down to)	48 × 3
Arbitrary size windowing (steps)	Horizontal: ≥48 Vertical: ≥3
Maximum image frequency (full frame)	115 Hz
Maximum image frequency	58820 Hz
Maximum frame rate	115 Hz @ 640 × 512 @ 1 µs 430 Hz @ 320 × 256 @ 1 µs 1560 Hz @ 160 × 128 @ 1 µs 58 820 Hz @ 48 × 3 @ 1 µs
Integration time range	0.2 µs to 20 000 µs
Integration time step	100 ns
Integration time mode	ITR
Digital output	GigE/Camlink base
Cooler type	Closed-cycle (rotary) Stirling cooler
Cooling temperature	80 K
Operability	>99%
Physical data	
Size (L × W × H)	253 mm × 130 mm × 168 mm (9.96" × 5.12" × 6.61") (without lens)
Weight without lens	4.950 kg (10.910 lb.) (without lens)
Tripod mounting	UNC ¼"-20
Power system	
Power supply	12 V DC (10–15 V DC)
Power consumption (cooldown/stab)	80 W/50 W

P/N: 66501-0101

© 2015, FLIR Systems, Inc.  
#66501-0101; r. 23380; en-US

<b>Environmental data</b>	
Operating temperature range	–20°C/+50°C (–4°F/131°F)
Bump	Operational 25G, IEC 68-2-29
Vibration	Operational 2G, IEC 68-2-26
Encapsulation	IP 54 (IEC 60529)
<b>Radiometry/measurement</b>	
Spectral range	8–9.4 µm
Thermal sensitivity/NETD	<35 mK
CNUCTM/HypercalTM	Yes
CLUT/extended linear response	No
Temperature measurement accuracy	±2°C (3.6°F) or ±2%
Maximum temperature without filter	80°C (176°F)
Well capacity (e-)	10 Me-
Filter wheel	4 slots for 1" filter 1 mm thick
Filter holding	Screw-in holder
<b>Timings and signals</b>	
SYNC IN	LVTTL
SYNC IN jitter	
SYNC IN active edge	Falling or rising edge
Delay between SYNC IN and integration	
Delay between SYNC IN and top frame	
Analog signals	1 × (–5 to 5 V) + 2 × (0–10 V)
TRIGGER IN	LVTTL
Video output	PAL or NTSC/composite or S-Video
Waveform generator	N/A
<b>Ethernet</b>	
GigE Vision	Yes
<b>Camera link</b>	
Connector type	1 × MDR26
Tap number	1 (A/B)
Bit depth	16 bpp
<b>Radio</b>	
Wi-Fi	N/A
Antenna	N/A
<b>Shipping information</b>	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558008065
UPC-12	845188008413
Country of origin	Sweden
<b>Lenses</b>	
Available optic 1	L0306V 12 mm f/2
Available optic 2	L0324V 25 mm f/2
Available optic 3	L0302V 50 mm f/2
Available optic 4	L0201V 100 mm f/2



P/N: 66501-0101  
© 2015, FLIR Systems, Inc.  
#66501-0101; r. 23380; en-US

Lenses	
Available optic 5	
Available optic 6	
Available optic 7	
Available optic 8	
Available optic 9	
Available optic 10	
Available optic 11	
Available optic 12	
Available optic 13	

## P/N: 66601-0101

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 66601-0101  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Detector/image	
Detector type	Focal plane array (FPA)
Sensor material	MCT
IR resolution	640 × 512
Detector pitch	15 µm
f-number	f/3
Optical interface	USL bayonet
Lens identification	Automatic
Windowing	320 × 256/160 × 128
Arbitrary size windowing (down to)	132 × 8
Arbitrary size windowing (steps)	Horizontal: ≥132, steps of 4 pixels Vertical: ≥8, steps of 1 pixel
Maximum image frequency (full frame)	146 Hz
Maximum image frequency	3690 Hz
Maximum frame rate	146 Hz @ 640 × 512/IWR 528 Hz @ 320 × 256/IWR 1510 Hz @ 160 × 128/IWR 3699 Hz @ 132 × 8/IWR
Integration time range	80 ns–20 000 µs
Integration time step	80 ns
Integration time mode	IWR/ITR
Digital output	GigE/Camlink base
Cooler type	Closed-cycle (rotary) Stirling cooler
Cooling temperature	80 K
Operability	>99%
Physical data	
Size (L × W × H)	233 mm × 150 mm × 178 mm (9.17" × 5.91" × 7.01") (without LCD) 233 mm × 150 mm × 178 mm (9.17" × 5.91" × 8.71") (with LCD)
Weight without lens	4.350 kg (9.590 lb.) without LCD 4.800 kg (10.580 lb.) with LCD
Tripod mounting	UNC ¼"-20
Power system	
Power supply	24 V DC
Power consumption (cooldown/stab)	48 W/35 W
Environmental data	
Operating temperature range	–20°C/+50°C (–4°F/122°F) (–4°F/122°F)
Bump	Operational 15G, IEC 68-2-29



**P/N: 66601-0101**

© 2015, FLIR Systems, Inc.  
#66601-0101; r. 23380; en-US

<b>Environmental data</b>	
Vibration	Operational 2G, IEC 68-2-26
Encapsulation	IP 54 (IEC 60529)
<b>Radiometry/measurement</b>	
Spectral range	1.5–5.5 $\mu\text{m}$
Thermal sensitivity/NETD	<25 mK (18 mK typical)
CNUCTM/HypercalTM	Yes
CLUT/extended linear response	No
Temperature measurement accuracy	$\pm 1^\circ\text{C}$ ( $1.8^\circ\text{F}$ ) or $\pm 1\%$
Maximum temperature without filter	150°C (302°F) (302°F)
Well capacity (e-)	6.36 Me- (ITR) 4.99 Me- (IWR)
Filter wheel	4 slots for 1" filter up to 2.5 mm thick
Filter holding	Screw-in holder
<b>Timings and signals</b>	
SYNC IN	TTL, singled ended, BNC >300 ns pulse width
SYNC IN jitter	20 ns
SYNC IN active edge	Falling or rising edge
Delay between SYNC IN and integration	
Delay between SYNC IN and top frame	
Analog signals	1 $\times$ (0/+10 V), BNC
TRIGGER IN	TTL, singled ended, BNC >300 ns pulse width
Video output	DVI 1080p30
Waveform generator	Sinus/triangle/square TTL 0–5 V Frequency: 0.001 Hz to 250 kHz
<b>Ethernet</b>	
GigE Vision	Yes
<b>Camera link</b>	
Connector type	1 $\times$ Mini MDR26
Tap number	1 (A/B)
Bit depth	16 bpp
<b>Radio</b>	
Wi-Fi	Standard: 802.11 b/g
	Frequency range: 2412–2462 MHz
	Maximum output power: 15 dBm
Antenna	Internal
<b>Shipping information</b>	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558008072
UPC-12	845188008420
Country of origin	Sweden
<b>Lenses</b>	
Available optic 1	L1009 MW 25 2.0 640 $\times$ 512
Available optic 2	L1008 MW 50 2.0 640 $\times$ 512
Available optic 3	L1019 MW 100 2.0 640 $\times$ 512
Available optic 4	L1118 MW 200 2,0 640 $\times$ 512



P/N: 66601-0101  
© 2015, FLIR Systems, Inc.  
#66601-0101; r. 23380; en-US

Lenses	
Available optic 5	L1114 MW Close up x3
Available optic 6	L1209 MW Close up x5
Available optic 7	L1202 MW Close up x1 wd 30cm
Available optic 8	
Available optic 9	
Available optic 10	
Available optic 11	
Available optic 12	
Available optic 13	

## P/N: 66602-0202

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 66602-0202  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Detector/image	
Detector type	Focal plane array (FPA)
Sensor material	MCT
IR resolution	640 × 512
Detector pitch	15 µm
f-number	f/3
Optical interface	M80 thread
Lens identification	N/A
Windowing	320 × 256/160 × 128
Arbitrary size windowing (down to)	132 × 8
Arbitrary size windowing (steps)	Horizontal: ≥132, steps of 4 pixels Vertical: ≥8, steps of 1 pixel
Maximum image frequency (full frame)	146 Hz
Maximum image frequency	3690 Hz
Maximum frame rate	146 Hz @ 640 × 512/IWR 528 Hz @ 320 × 256/IWR 1510 Hz @ 160 × 128/IWR 3699 Hz @ 132 × 8/IWR
Integration time range	80 ns–20 000 µs
Integration time step	80 ns
Integration time mode	IWR/ITR
Digital output	GigE/Camlink base
Cooler type	Closed-cycle (rotary) Stirling cooler
Cooling temperature	80 K
Operability	>99%
Physical data	
Size (L × W × H)	233 mm × 150 mm × 178 mm (9.17" × 5.91" × 7.01") (without LCD) 233 mm × 150 mm × 178 mm (9.17" × 5.91" × 8.71") (with LCD)
Weight without lens	4.350 kg (9.590 lb.) without LCD 4.800 kg (10.580 lb.) with LCD
Tripod mounting	UNC ¼"-20
Power system	
Power supply	24 V DC
Power consumption (cooldown/stab)	48 W/35 W
Environmental data	
Operating temperature range	–20°C/+50°C (–4°F/122°F) (–4°F/122°F)
Bump	Operational 15G, IEC 68-2-29

**P/N: 66602-0202**

© 2015, FLIR Systems, Inc.  
#66602-0202; r. 23380; en-US

<b>Environmental data</b>	
Vibration	Operational 2G, IEC 68-2-26
Encapsulation	IP 54 (IEC 60529)
<b>Radiometry/measurement</b>	
Spectral range	1.5–5.5 $\mu\text{m}$
Thermal sensitivity/NETD	<25 mK (18 mK typical)
CNUCTM/HypercalTM	Yes
CLUT/extended linear response	No
Temperature measurement accuracy	$\pm 1^{\circ}\text{C}$ ( $1.8^{\circ}\text{F}$ ) or $\pm 1\%$
Maximum temperature without filter	150°C (302°F)
Well capacity (e-)	6.36 Me- (ITR) 4.99 Me- (IWR)
Filter wheel	4 slots for 1" filter up to 2.5 mm thick
Filter holding	Screw-in holder
<b>Timings and signals</b>	
SYNC IN	TTL, singled ended, BNC >300 ns pulse width
SYNC IN jitter	20 ns
SYNC IN active edge	Falling or rising edge
Delay between SYNC IN and integration	
Delay between SYNC IN and top frame	
Analog signals	1 $\times$ (0/+10 V), BNC
TRIGGER IN	TTL, singled ended, BNC >300 ns pulse width
Video output	DVI 1080p30
Waveform generator	Sinus/triangle/square TTL 0–5 V Frequency: 0.001 Hz to 250 kHz
<b>Ethernet</b>	
GigE Vision	Yes
<b>Camera link</b>	
Connector type	1 $\times$ Mini MDR26
Tap number	1 (A/B)
Bit depth	16 bpp
<b>Radio</b>	
Wi-Fi	802.11g
	Frequency range: 2412–2462 MHz
	Maximum output power: 15 dBm
Antenna	Internal
<b>Shipping information</b>	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558008089
UPC-12	845188008437
Country of origin	Sweden
<b>Lenses</b>	
Available optic 1	L0315 12 mm f/2
Available optic 2	L0116 25 mm f/2
Available optic 3	L0106 50 mm f/2
Available optic 4	L0118 100 mm f/2



**P/N: 66602-0202**

© 2015, FLIR Systems, Inc.  
#66602-0202; r. 23380; en-US

Lenses	
Available optic 5	L0804 200 mm f/2
Available optic 6	L0120 Close up x1 f/2
Available optic 7	L0120E Close up x3 f/2
Available optic 8	L0905 Close up x1 wd 30cm
Available optic 9	L0709T 27 mm BB f/3
Available optic 10	L0608T 50 mm BB f/3
Available optic 11	L0604T 100 mm BB f/3
Available optic 12	L0701 200 mm BB f/3
Available optic 13	

## P/N: 66701-0101

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 66701-0101  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Detector/image	
Detector type	Focal plane array (FPA)
Sensor material	InSb
IR resolution	640 × 512
Detector pitch	15 µm
f-number	f/3
Optical interface	USL bayonet
Lens identification	Automatic
Windowing	320 × 256/160 × 128
Arbitrary size windowing (down to)	64 × 8
Arbitrary size windowing (steps)	Horizontal: ≥64, steps of 16 pixels Vertical: ≥8, steps of 4 pixels
Maximum image frequency (full frame)	126 Hz
Maximum image frequency	4011 Hz
Maximum frame rate	126 Hz @ 640 × 512/IWR 410 Hz @ 320 × 256/IWR 1087 Hz @ 160 × 128/IWR 4011 Hz @ 64 × 8/IWR
Integration time range	160 ns–20 000 µs
Integration time step	160 ns
Integration time mode	IWR/ITR
Digital output	GigE/Camlink base
Cooler type	Closed-cycle (rotary) Stirling cooler
Cooling temperature	77 K
Operability	>99.5%
Physical data	
Size (L × W × H)	233 mm × 150 mm × 178 mm (9.17" × 5.91" × 7.01") (without LCD) 233 mm × 150 mm × 178 mm (9.17" × 5.91" × 8.71") (with LCD)
Weight without lens	4.350 kg (9.590 lb.) without LCD 4.800 kg (10.580 lb.) with LCD
Tripod mounting	UNC ¼"-20
Power system	
Power supply	24 V DC
Power consumption (cooldown/stab)	48 W/35 W
Environmental data	
Operating temperature range	–20°C/+50°C (–4°F/122°F) (–4°F/122°F)
Bump	Operational 15G, IEC 68-2-29

**P/N: 66701-0101**

 © 2015, FLIR Systems, Inc.  
 #66701-0101; r. 23380; en-US

<b>Environmental data</b>	
Vibration	Operational 2G, IEC 68-2-26
Encapsulation	IP 54 (IEC 60529)
<b>Radiometry/measurement</b>	
Spectral range	1.5–5.5 $\mu\text{m}$
Thermal sensitivity/NETD	<25 mK (18 mK typical)
CNUCTM/HypercalTM	Yes
CLUT/extended linear response	Yes
Temperature measurement accuracy	$\pm 1^\circ\text{C}$ ( $1.8^\circ\text{F}$ ) or $\pm 1\%$
Maximum temperature without filter	300°C (572°F)
Well capacity (e-)	6.5 Me-
Filter wheel	4 slots for 1" filter up to 2.5 mm thick
Filter holding	Screw-in holder
<b>Timings and signals</b>	
SYNC IN	TTL, singled ended, BNC >300 ns pulse width
SYNC IN jitter	20 ns
SYNC IN active edge	Falling or rising edge
Delay between SYNC IN and integration	690 ns in ITR
Delay between SYNC IN and top frame	
Analog signals	1 $\times$ (0/+10 V), BNC
TRIGGER IN	TTL, singled ended, BNC >300 ns pulse width
Video output	DVI 1080p30
Waveform generator	Sinus/triangle/square TTL 0–5 V Frequency: 0.001 Hz to 250 kHz
<b>Ethernet</b>	
GigE Vision	Yes
<b>Camera link</b>	
Connector type	1 $\times$ Mini MDR26
Tap number	1 (A/B)
Bit depth	16 bpp
<b>Radio</b>	
Wi-Fi	802.11g
	Frequency range: 2412–2462 MHz
	Maximum output power: 15 dBm
Antenna	Internal
<b>Shipping information</b>	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558008096
UPC-12	845188008444
Country of origin	Sweden
<b>Lenses</b>	
Available optic 1	L1009 MW 25 2.0 640 $\times$ 512
Available optic 2	L1008 MW 50 2.0 640 $\times$ 512
Available optic 3	L1019 MW 100 2.0 640 $\times$ 512
Available optic 4	L1118 MW 200 2,0 640 $\times$ 512



P/N: 66701-0101  
© 2015, FLIR Systems, Inc.  
#66701-0101; r. 23380; en-US

Lenses	
Available optic 5	L1114 MW Close up x3
Available optic 6	L1209 MW Close up x5
Available optic 7	L1202 MW Close up x1 wd 30cm
Available optic 8	
Available optic 9	
Available optic 10	
Available optic 11	
Available optic 12	
Available optic 13	



## P/N: 66702-0202

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 66702-0202  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Detector/image	
Detector type	Focal plane array (FPA)
Sensor material	InSb
IR resolution	640 × 512
Detector pitch	15 µm
f-number	f/3
Optical interface	M80 thread
Lens identification	N/A
Windowing	320 × 256/160 × 128
Arbitrary size windowing (down to)	64 × 8
Arbitrary size windowing (steps)	Horizontal: ≥64, steps of 16 pixels Vertical: ≥8, steps of 4 pixels
Maximum image frequency (full frame)	126 Hz
Maximum image frequency	4011 Hz
Maximum frame rate	126 Hz @ 640 × 512/IWR 410 Hz @ 320 × 256/IWR 1087 Hz @ 160 × 128/IWR 4011 Hz @ 64 × 8/IWR
Integration time range	160 ns–20 000 µs
Integration time step	160 ns
Integration time mode	IWR/ITR
Digital output	GigE/Camlink base
Cooler type	Closed-cycle (rotary) Stirling cooler
Cooling temperature	77 K
Operability	>99.5%
Physical data	
Size (L × W × H)	233 mm × 150 mm × 178 mm (9.17" × 5.91" × 7.01") (without LCD) 233 mm × 150 mm × 178 mm (9.17" × 5.91" × 8.71") (with LCD)
Weight without lens	4.350 kg (9.590 lb.) without LCD 4.800 kg (10.580 lb.) with LCD
Tripod mounting	UNC ¼"-20
Power system	
Power supply	24 V DC
Power consumption (cooldown/stab)	48 W/35 W
Environmental data	
Operating temperature range	–20°C/+50°C (–4°F/122°F)
Bump	Operational 15G, IEC 68-2-29

**P/N: 66702-0202**

© 2015, FLIR Systems, Inc.  
#66702-0202; r. 23380; en-US

<b>Environmental data</b>	
Vibration	Operational 2G, IEC 68-2-26
Encapsulation	IP 54 (IEC 60529)
<b>Radiometry/measurement</b>	
Spectral range	1.5–5.5 $\mu\text{m}$
Thermal sensitivity/NETD	<25 mK (18 mK typical)
CNUCTM/HypercalTM	Yes
CLUT/extended linear response	Yes
Temperature measurement accuracy	$\pm 1^{\circ}\text{C}$ ( $1.8^{\circ}\text{F}$ ) or $\pm 1\%$
Maximum temperature without filter	300°C (572°F)
Well capacity (e-)	6.5 Me-
Filter wheel	4 slots for 1" filter up to 2.5 mm thick
Filter holding	Screw-in holder
<b>Timings and signals</b>	
SYNC IN	TTL, singled ended, BNC >300 ns pulse width
SYNC IN jitter	20 ns
SYNC IN active edge	Falling or rising edge
Delay between SYNC IN and integration	690 ns in ITR
Delay between SYNC IN and top frame	
Analog signals	1 $\times$ (0/+10 V), BNC
TRIGGER IN	TTL, singled ended, BNC >300 ns pulse width
Video output	DVI 1080p30
Waveform generator	Sinus/triangle/square TTL 0–5 V Frequency: 0.001 Hz to 250 kHz
<b>Ethernet</b>	
GigE Vision	Yes
<b>Camera link</b>	
Connector type	1 $\times$ Mini MDR26
Tap number	1 (A/B)
Bit depth	16 bpp
<b>Radio</b>	
Wi-Fi	802.11g
	Frequency range: 2412–2462 MHz
	Maximum output power: 15 dBm
Antenna	Internal
<b>Shipping information</b>	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558008102
UPC-12	845188008451
Country of origin	Sweden
<b>Lenses</b>	
Available optic 1	L0315 12 mm f/2
Available optic 2	L0116 25 mm f/2
Available optic 3	L0106 50 mm f/2
Available optic 4	L0118 100 mm f/2



**P/N: 66702-0202**

© 2015, FLIR Systems, Inc.  
#66702-0202; r. 23380; en-US

Lenses	
Available optic 5	L0804 200 mm f/2
Available optic 6	L0120 Close up x1 f/2
Available optic 7	L0120E Close up x3 f/2
Available optic 8	L0905 Close up x1 wd 30cm
Available optic 9	L0709T 27 mm BB f/3
Available optic 10	L0608T 50 mm BB f/3
Available optic 11	L0604T 100 mm BB f/3
Available optic 12	L0701 200 mm BB f/3
Available optic 13	

## P/N: 66801-0101

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 66801-0101  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Detector/image	
Detector type	Digital focal plane array (FPA)
Sensor material	InSb
IR resolution	640 × 512
Detector pitch	15 µm
f-number	f/3
Optical interface	USL bayonet
Lens identification	Automatic
Windowing	320 × 256/160 × 128
Arbitrary size windowing (down to)	2 × 2
Arbitrary size windowing (steps)	Horizontal: ≥2, steps of 2 pixels Vertical: ≥2, steps of 2 pixels
Maximum image frequency (full frame)	355 Hz
Maximum image frequency	4500 Hz
Maximum frame rate	355 Hz @ 640 × 512/IWR 670 Hz @ 320 × 256/IWR 1205 Hz @ 160 × 128/IWR 4500 Hz @ 320 × 8/IWR
Integration time range	500 ns–20 000 µs
Integration time step	12.5 ns
Integration time mode	IWR/ITR
Digital output	GigE/Camlink base—medium
Cooler type	Closed-cycle (rotary) Stirling cooler
Cooling temperature	77 K
Operability	>99.5%
Physical data	
Size (L × W × H)	233 mm × 150 mm × 178 mm (9.17" × 5.91" × 7.01") (without LCD) 233 mm × 150 mm × 178 mm (9.17" × 5.91" × 8.71") (with LCD)
Weight without lens	4.350 kg (9.590 lb.) without LCD 4.800 kg (10.580 lb.) with LCD
Tripod mounting	UNC ¼"-20
Power system	
Power supply	24 V DC
Power consumption (cooldown/stab)	48 W/35 W
Environmental data	
Operating temperature range	–20°C/+50°C (–4°F/122°F)
Bump	Operational 15G, IEC 68-2-29

**P/N: 66801-0101**

© 2015, FLIR Systems, Inc.  
#66801-0101; r. 23380; en-US

<b>Environmental data</b>	
Vibration	Operational 2G, IEC 68-2-26
Encapsulation	IP 54 (IEC 60529)
<b>Radiometry/measurement</b>	
Spectral range	1.5–5.5 $\mu\text{m}$
Thermal sensitivity/NETD	<25 mK (20 mK typical)
CNUCTM/HypercalTM	Yes
CLUT/extended linear response	Yes
Temperature measurement accuracy	$\pm 1^\circ\text{C}$ ( $1.8^\circ\text{F}$ ) or $\pm 1\%$
Maximum temperature without filter	300°C (572°F)
Well capacity (e-)	5.8 Me-
Filter wheel	4 slots for 1" filter up to 2.5 mm thick
Filter holding	Screw-in holder
<b>Timings and signals</b>	
SYNC IN	TTL, singled ended, BNC >300 ns pulse width
SYNC IN jitter	12.5 ns
SYNC IN active edge	Falling or rising edge
Delay between SYNC IN and integration	
Delay between SYNC IN and top frame	
Analog signals	1 $\times$ (0/+10 V), BNC
TRIGGER IN	TTL, singled ended, BNC >300 ns pulse width
Video output	DVI 1080p30
Waveform generator	Sinus/triangle/square TTL 0–5 V Frequency: 0.001 Hz to 250 kHz
<b>Ethernet</b>	
GigE Vision	Yes
<b>Camera link</b>	
Connector type	2 $\times$ Mini MDR26
Tap number	2 (A/B/C/D)
Bit depth	16 bpp
<b>Radio</b>	
Wi-Fi	802.11g
	Frequency range: 2412–2462 MHz
	Maximum output power: 15 dBm
Antenna	Internal
<b>Shipping information</b>	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558008119
UPC-12	845188008468
Country of origin	Sweden
<b>Lenses</b>	
Available optic 1	L1009 MW 25 2.0 640 $\times$ 512
Available optic 2	L1008 MW 50 2.0 640 $\times$ 512
Available optic 3	L1019 MW 100 2.0 640 $\times$ 512
Available optic 4	L1118 MW 200 2,0 640 $\times$ 512



P/N: 66801-0101  
© 2015, FLIR Systems, Inc.  
#66801-0101; r. 23380; en-US

Lenses	
Available optic 5	L1114 MW Close up x3
Available optic 6	L1209 MW Close up x5
Available optic 7	L1202 MW Close up x1 wd 30cm
Available optic 8	
Available optic 9	
Available optic 10	
Available optic 11	
Available optic 12	
Available optic 13	

## P/N: 66802-0202

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 66802-0202  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Detector/image	
Detector type	Digital focal plane array (FPA)
Sensor material	InSb
IR resolution	640 × 512
Detector pitch	15 µm
f-number	f/3
Optical interface	M80 thread
Lens identification	N/A
Windowing	320 × 256/160 × 128
Arbitrary size windowing (down to)	2 × 2
Arbitrary size windowing (steps)	Horizontal: ≥2, steps of 2 pixels Vertical: ≥2, steps of 2 pixels
Maximum image frequency (full frame)	355 Hz
Maximum image frequency	4500 Hz
Maximum frame rate	355 Hz @ 640 × 512/IWR 670 Hz @ 320 × 256/IWR 1205 Hz @ 160 × 128/IWR 4500 Hz @ 320 × 8/IWR
Integration time range	500 ns–20 000 µs
Integration time step	12.5 ns
Integration time mode	IWR/ITR
Digital output	GigE/Camlink base—medium
Cooler type	Closed-cycle (rotary) Stirling cooler
Cooling temperature	77 K
Operability	>99.5%
Physical data	
Size (L × W × H)	233 mm × 150 mm × 178 mm (9.17" × 5.91" × 7.01") (without LCD) 233 mm × 150 mm × 178 mm (9.17" × 5.91" × 8.71") (with LCD)
Weight without lens	4.350 kg (9.590 lb.) without LCD 4.800 kg (10.580 lb.) with LCD
Tripod mounting	UNC ¼"-20
Power system	
Power supply	24 V DC
Power consumption (cooldown/stab)	48 W/35 W
Environmental data	
Operating temperature range	–20°C/+50°C (–4°F/122°F)
Bump	Operational 15G, IEC 68-2-29

**P/N: 66802-0202**

© 2015, FLIR Systems, Inc.  
#66802-0202; r. 23380; en-US

<b>Environmental data</b>	
Vibration	Operational 2G, IEC 68-2-26
Encapsulation	IP 54 (IEC 60529)
<b>Radiometry/measurement</b>	
Spectral range	1.5–5.5 $\mu\text{m}$
Thermal sensitivity/NETD	<25 mK (20 mK typical)
CNUCTM/HypercalTM	Yes
CLUT/extended linear response	Yes
Temperature measurement accuracy	$\pm 1^{\circ}\text{C}$ ( $1.8^{\circ}\text{F}$ ) or $\pm 1\%$
Maximum temperature without filter	300°C (572°F)
Well capacity (e-)	5.8 Me-
Filter wheel	4 slots for 1" filter up to 2.5 mm thick
Filter holding	Screw-in holder
<b>Timings and signals</b>	
SYNC IN	TTL, singled ended, BNC >300 ns pulse width
SYNC IN jitter	12.5 ns
SYNC IN active edge	Falling or rising edge
Delay between SYNC IN and integration	
Delay between SYNC IN and top frame	
Analog signals	1 $\times$ (0/+10 V), BNC
TRIGGER IN	TTL, singled ended, BNC >300 ns pulse width
Video output	DVI 1080p30
Waveform generator	Sinus/triangle/square TTL 0–5 V Frequency: 0.001 Hz to 250 kHz
<b>Ethernet</b>	
GigE Vision	Yes
<b>Camera link</b>	
Connector type	2 $\times$ Mini MDR26
Tap number	2 (A/B/C/D)
Bit depth	16 bpp
<b>Radio</b>	
Wi-Fi	802.11g
	Frequency range: 2412–2462 MHz
	Maximum output power: 15 dBm
Antenna	Internal
<b>Shipping information</b>	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558008126
UPC-12	845188008475
Country of origin	Sweden
<b>Lenses</b>	
Available optic 1	L0315 12 mm f/2
Available optic 2	L0116 25 mm f/2
Available optic 3	L0106 50 mm f/2
Available optic 4	L0118 100 mm f/2





**P/N: 66802-0202**

© 2015, FLIR Systems, Inc.  
#66802-0202; r. 23380; en-US

Lenses	
Available optic 5	L0804 200 mm f/2
Available optic 6	L0120 Close up x1 f/2
Available optic 7	L0120E Close up x3 f/2
Available optic 8	L0905 Close up x1 wd 30cm
Available optic 9	L0709T 27 mm BB f/3
Available optic 10	L0608T 50 mm BB f/3
Available optic 11	L0604T 100 mm BB f/3
Available optic 12	L0701 200 mm BB f/3
Available optic 13	

## P/N: 66901-0101

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 66901-0101  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Detector/image	
Detector type	Digital focal plane array (FPA)
Sensor material	InSb
IR resolution	1280 × 1024
Detector pitch	15 µm
f-number	f/2
Optical interface	Bayonet
Lens identification	Automatic
Windowing	640 × 512/320 × 256
Arbitrary size windowing (down to)	2 × 2
Arbitrary size windowing (steps)	Horizontal: ≥2, steps of 2 pixels Vertical: ≥2, steps of 2 pixels
Maximum image frequency (full frame)	106 Hz
Maximum image frequency	3690 Hz
Maximum frame rate	167 Hz @ 640 × 512/ITR 321 Hz @ 320 × 256/ITR 594 Hz @ 160 × 128/ITR 3695 Hz @ 1280 × 2/ITR
Integration time range	500 ns–20 000 µs
Integration time step	12.5 ns
Integration time mode	IWR/ITR
Digital output	GigE/Camlink base—medium
Cooler type	Closed-cycle (rotary) Stirling cooler
Cooling temperature	77 K
Operability	>99.5%
Physical data	
Size (L × W × H)	233 mm × 150 mm × 178 mm (9.17" × 5.91" × 7.01") (without LCD) 233 mm × 150 mm × 178 mm (9.17" × 5.91" × 8.71") (with LCD)
Weight without lens	4.350 kg (9.590 lb.) without LCD 4.800 kg (10.580 lb.) with LCD
Tripod mounting	UNC ¼"-20

**P/N: 66901-0101**

© 2015, FLIR Systems, Inc.  
#66901-0101; r. 23380; en-US

<b>Power system</b>	
Power supply	24 V DC
Power consumption (cooldown/stab)	48 W/35 W
<b>Environmental data</b>	
Operating temperature range	–20°C/+50°C (–4°F/122°F)
Bump	Operational 15G, IEC 68-2-29
Vibration	Operational 2G, IEC 68-2-26
Encapsulation	IP 54 (IEC 60529)
<b>Radiometry/measurement</b>	
Spectral range	1.5–5.5 µm
Thermal sensitivity/NETD	<25 mK (20 mK typical)
CNUCTM/HypercalTM	Yes
CLUT/extended linear response	Yes
Temperature measurement accuracy	±1°C (1.8°F) or ±1%
Maximum temperature without filter	300°C (572°F)
Well capacity (e-)	5.8 Me-
Filter wheel	4 slots for 1" filter up to 2.5 mm thick
Filter holding	Screw-in holder
<b>Timings and signals</b>	
SYNC IN	TTL, singled ended, BNC >300 ns pulse width
SYNC IN jitter	12.5 ns
SYNC IN active edge	Falling or rising edge
Delay between SYNC IN and integration	
Delay between SYNC IN and top frame	
Analog signals	1 × (0/+10 V), BNC
TRIGGER IN	TTL, singled ended, BNC >300 ns pulse width
Video output	DVI 1080p30
Waveform generator	Sinus/triangle/square TTL 0–5 V Frequency: 0.001 Hz to 250 kHz
<b>Ethernet</b>	
GigE Vision	Yes
<b>Camera link</b>	
Connector type	2 × Mini MDR26
Tap number	2 (A/B/C/D)
Bit depth	16 bpp
<b>Radio</b>	
Wi-Fi	802.11g
	Frequency range: 2412–2462 MHz
	Maximum output power: 15 dBm
Antenna	Internal
<b>Shipping information</b>	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558008133
UPC-12	845188008482
Country of origin	Sweden



P/N: 66901-0101  
© 2015, FLIR Systems, Inc.  
#66901-0101; r. 23380; en-US

Lenses	
Available optic 1	L1002 MW 50 2.0 HD
Available optic 2	L1003 MW 28 2.0 HD
Available optic 3	L1013 MW 100 2.0 HD
Available optic 4	L1101 MW 200 2.0 HD
Available optic 5	L1117 MW Close up x3 HD
Available optic 6	
Available optic 7	
Available optic 8	
Available optic 9	
Available optic 10	
Available optic 11	
Available optic 12	
Available optic 13	

## P/N: 67904-0101

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 67904-0101  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Detector/image	
Detector type	Focal plane array (FPA)
Sensor material	InGaAs
IR resolution	320 × 256
Detector pitch	30 µm
f-number	N/A
Optical interface	C-Mount
Lens identification	N/A
Windowing	160 × 128/80 × 64/User
Arbitrary size windowing (down to)	48 × 8
Arbitrary size windowing (steps)	Horizontal: ≥ 48 steps of 16 pixels Vertical: ≥ 8 steps of 4 pixels
Maximum image frequency (full frame)	340 Hz
Maximum image frequency	20 kHz
Maximum frame rate	340 Hz @ 320 × 256 @ 6 µs 1025 Hz @ 160 × 128 @ 6 µs 2695 Hz @ 80 × 64 @ 6 µs 20 400 Hz @ 48 × 4 @ 6 µs
Integration time range	400 ns to 999ms
Integration time step	200 ns
Integration time mode	ITR/IWR/fast ITR
Digital output	GigE
Cooler type	2-stage TEC switchable (1 or 2 TEC operation)
Cooling temperature	Down to -5°C (23°F) with 2-stage TEC operation
Operability	>99%
Physical data	
Size (L × W × H)	253 mm × 130 mm × 168 mm (9.96" × 5.12" × 6.61") (without lens)
Weight without lens	4.350 kg (10.580 lb.) (without lens)
Tripod mounting	UNC ¼"-20
Power system	
Power supply	12 V DC
Power consumption (cooldown/stab)	25 W (single TEC)/60 W (double TEC)

P/N: 67904-0101

© 2015, FLIR Systems, Inc.  
#67904-0101; r. 23380; en-US

<b>Environmental data</b>	
Operating temperature range	–20°C/+50°C (–4°F/131°F)
Bump	Operational 25G, IEC 68-2-29
Vibration	Operational 2G, IEC 68-2-26
Encapsulation	IP 54 (IEC 60529)
<b>Radiometry/measurement</b>	
Spectral range	0.9–1.7 µm
Thermal sensitivity/NETD	N/A
CNUCTM/HypercalTM	No
CLUT/extended linear response	No
Temperature measurement accuracy	±1%
Maximum temperature without filter	
Well capacity (e-)	Low gain: 3.5 Me- High gain: 0.17 Me-
Filter wheel	4 slots for 1" filter 1 mm thick
Filter holding	Screw-in holder
<b>Timings and signals</b>	
SYNC IN	LVTTL
SYNC IN jitter	200 ns
SYNC IN active edge	Falling or rising edge
Delay between SYNC IN and integration	
Delay between SYNC IN and top frame	
Analog signals	1 × (–5 to 5 V) + 2 × (0–10 V)
TRIGGER IN	LVTTL
Video output	PAL or NTSC/composite or S-Video
Waveform generator	N/A
<b>Ethernet</b>	
GigE Vision	Yes
<b>Camera link</b>	
Connector type	1 × MDR26
Tap number	1 (A/B)
Bit depth	16 bpp
<b>Radio</b>	
Wi-Fi	N/A
Antenna	N/A
<b>Shipping information</b>	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558008652
UPC-12	845188009175
Country of origin	Sweden
<b>Lenses</b>	
Available optic 1	L0908 6 mm f/1.4 (77° × 65°)
Available optic 2	L0920 12 mm f/1.4 (44° × 35°)
Available optic 3	L0921 16 mm f/1.4 (33° × 27°)
Available optic 4	L0922 25 mm f/1.6 (22° × 17°)

**P/N: 67904-0101**

© 2015, FLIR Systems, Inc.  
#67904-0101; r. 23380; en-US

Lenses	
Available optic 5	L0923 35 mm f/1.6 (16° × 12°)
Available optic 6	L0924 50 mm f/2 (11° × 9°)
Available optic 7	L0925 75 mm F2.5 (7,3° × 5,8°)
Available optic 8	L0926 100 mm f/2,8 (5.5° × 4,4°)
Available optic 9	L1001 1000 mm f/10 (0.59° × 0,47°)
Available optic 10	L1010 High performance 25 mm f/1.4 (22° × 17°)
Available optic 11	L1011 High performance 35 mm f/1.4 (16° × 12°)
Available optic 12	L1012 High performance 50 mm f/1.4 (11° × 9°)
Available optic 13	L1015 High performance macro zoom f/7 to f/21 ×0.7 up to ×4.5

## P/N: 68101-0101

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 68101-0101  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Detector/image	
Detector type	Focal plane array (FPA)
Sensor material	InSb
IR resolution	320 × 256
Detector pitch	30 µm
f-number	f/3
Optical interface	M80 thread
Lens identification	N/A
Windowing	160 × 128/64 × 120/64 × 8
Arbitrary size windowing (down to)	No
Arbitrary size windowing (steps)	N/A
Maximum image frequency (full frame)	170 Hz
Maximum image frequency	> 11 kHz
Maximum frame rate	178 Hz @ 320 × 256 @ 8 µs 656 Hz @ 160 × 128 @ 8 µs 1479 Hz @ 64 × 120 @ 8 µs 11427 Hz @ 64 × 8 @ 8 µs
Integration time range	1–20 000 µs
Integration time step	250 ns
Integration time mode	ITR
Digital output	GigE/Camlink base
Cooler type	Closed-cycle (rotary) Stirling cooler
Cooling temperature	77 K
Operability	>99.5%
Physical data	
Size (L × W × H)	253 mm × 130 mm × 168 mm (9.96" × 5.12" × 6.61") (without lens)
Weight without lens	4.950 kg (10.910 lb.) (without lens)
Tripod mounting	UNC ¼"-20
Power system	
Power supply	12 V DC (10–15 V DC)
Power consumption (cooldown/stab)	30 W/25 W



**P/N: 68101-0101**

© 2015, FLIR Systems, Inc.  
#68101-0101; r. 23380; en-US

<b>Environmental data</b>	
Operating temperature range	–20°C/+50°C (–4°F/131°F)
Bump	Operational 25G, IEC 68-2-29
Vibration	Operational 2G, IEC 68-2-26
Encapsulation	IP 54 (IEC 60529)
<b>Radiometry/measurement</b>	
Spectral range	1.5–5.5 µm
Thermal sensitivity/NETD	<25 mK (20 mK typical)
CNUCTM/HypercalTM	Yes
CLUT/extended linear response	No
Temperature measurement accuracy	±1°C (1.8°F) or ±1%
Maximum temperature without filter	300°C (572°F)
Well capacity (e-)	7.11 Me-
Filter wheel	4 slots for 1" filter 1 mm thick
Filter holding	Glued
<b>Timings and signals</b>	
SYNC IN	LVTTL
SYNC IN jitter	250 ns
SYNC IN active edge	Falling or rising edge
Delay between SYNC IN and integration	7.15–7.4 µs
Delay between SYNC IN and top frame	2.4–2.65 µs
Analog signals	1 × (–5 to 5 V) + 2 × (0–10 V)
TRIGGER IN	LVTTL
Video output	PAL or NTSC/composite or S-Video
Waveform generator	N/A
<b>Ethernet</b>	
GigE Vision	Yes
<b>Camera link</b>	
Connector type	1 × MDR26
Tap number	1 (A/B)
Bit depth	16 bpp
<b>Radio</b>	
Wi-Fi	N/A
Antenna	N/A
<b>Shipping information</b>	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558008799
UPC-12	845188009311
Country of origin	Sweden
<b>Lenses</b>	
Available optic 1	L0315 12 mm f/2
Available optic 2	L0116 25 mm f/2
Available optic 3	L0106 50 mm f/2
Available optic 4	L0118 100 mm f/2



**P/N: 68101-0101**

© 2015, FLIR Systems, Inc.  
#68101-0101; r. 23380; en-US

Lenses	
Available optic 5	L0804 200 mm f/2
Available optic 6	L0120 Close up x1 f/2
Available optic 7	L0120E Close up x3 f/2
Available optic 8	L0905 Close up x1 wd 30cm
Available optic 9	L0709T 27 mm BB f/3
Available optic 10	L0608T 50 mm BB f/3
Available optic 11	L0604T 100 mm BB f/3
Available optic 12	L0701 200 mm BB f/3
Available optic 13	

A photograph from our company archives



# T&M instruments

---

## P/N: CM78

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: CM78  
Commit: 23377  
Language: en-US  
Modified: 2015-02-24 14:06  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



The FLIR CM78 is a true RMS industrial grade 1000 A clamp meter for the electrician who needs a safe, capable combination tool.

- The integrated infrared (IR) thermometer provides fast non-contact measurements on panels, conduits, and motors.
- Powerful work lights not only assist with clamping but are bright enough to serve as a primary work light.
- FLIR Tools Mobile connects the FLIR CM78 to your compatible smartphones and tablets via Bluetooth.
- METERLINK technology wirelessly integrates electrical readings on your IR image with FLIR thermal cameras.

### Features:

Voltage and current, minimum, maximum, average, auto power off, data hold, relative, peak hold, battery status indicator, bright white LED backlight.

Measurement	
AC/DC current	1000 A $\pm$ 2.5%
AC/DC voltage	1000 V $\pm$ 1.5%
Resistance	40.00 M $\Omega$ $\pm$ 1.5%
Capacitance	4.000 mF $\pm$ 3%
Frequency	4000 Hz $\pm$ 1.5%
Temperature (IR)	-20 to 270°C (-20 to 518°F) $\pm$ 2%
IR distance to target ratio	8:1
Type K temperature (optional probe)	-20 to 760°C (-4 to 1400°F) $\pm$ 3%
Maximum voltage applied to any terminal	1000 V DC or 1000 V AC RMS
Measuring rate	20 samples per second (nominal)
Meter data	
Jaw opening	42 mm (1.7", 1500 MCM)
Bluetooth range (maximum)	10 m (32')
Category rating	CAT IV-600 V, CAT III-1000 V
Data recording	N/A
Warranty	Limited lifetime
Calibration cycle	Once per year (suggested)

**P/N: CM78**

© 2015, FLIR Systems, Inc.  
#CM78; r. 23377; en-US

<b>Certifications</b>	
Certifications	UL, CE, FCC, CB
Complies with safety standards	IEC 61010-1 CAT IV-600 V and CAT III-1000 V, IEC 61010-2-33
<b>Power system</b>	
Power requirements	6 × 1.5 V AAA alkaline batteries
Battery life	~100 hours with alkaline batteries (backlight, work light, and Bluetooth off)
Auto power off	Default: 25 minutes
<b>Environmental data</b>	
Operating ambient temperature	-10 to 50°C (14–122°F)
Storage temperature	-25 to 60°C (-14 to 140°F)
Temperature coefficient	0.2 × (specified accuracy)/°C, <18°C, >28°C
Operating altitude	2000 m (6550')
Pollution degree	2
Electromagnetic compatibility	EN 61326-1
Shock vibration	Random vibration per MIL-PRF-28800f Class 2 (5–55 Hz, 3g maximum)
<b>Meter physical data</b>	
Weight	0.63 kg (1.4 lb.), including batteries
Dimensions (H × W × L)	257 mm × 110 mm × 50 mm (10.1" × 4.3" × 2.0")
Material	<ul style="list-style-type: none"> <li>Polycarbonate and acrylonitrile butadiene styrene (PC-ABS)</li> <li>Thermoplastic elastomer (TPE)</li> </ul>
Color	Gray, black
<b>Shipping information</b>	
Packaging type	Color box with view of product in clamshell
Packaging contents	<ul style="list-style-type: none"> <li>CM78 FLIR meter</li> <li>TA80 premium test leads</li> <li>6 × AAA Energizer batteries</li> <li>User manual/CD</li> </ul>
Packaging weight	1.03 kg (2.27 lb.)
Packaging dimensions (H × W × L)	13.5 cm × 11 cm × 30 cm (5.3" × 4.3" × 11.8")
Carton weight	21.5 kg (47.4 lb.)
Carton dimensions (H × W × L)	57 cm × 30 cm × 65 cm (22.4" × 11.8" × 25.6")
Carton quantity	20
EAN-13	0793950370780
UPC-12	793950370780
Country of origin	China
Tariff code	9030310000
<b>Accessories</b>	
TA80	CAT IV silicon test leads
<b>Technical support</b>	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>

## P/N: CM82

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: CM82  
Commit: 23377  
Language: en-US  
Modified: 2015-02-24 14:06  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Part number	CM82
Part name	600 Amp Power Clamp Meter with VFD Mode
Part description	<p>The FLIR CM82 is an industrial-grade power clamp meter engineered with advanced power analysis and variable-frequency drive (VFD) filtering functions required by electrical troubleshooters.</p> <ul style="list-style-type: none"> <li>VFD mode provides superior accuracy for working on VFD-controlled equipment.</li> <li>Advanced power efficiency and harmonics measurements for system-level performance analysis.</li> <li>Powerful work lights not only assist with clamping but are bright enough to serve as a primary work light.</li> </ul>
<b>Measurement</b>	
DC voltage	99.99 V $\pm$ (0.7% + 2 digits) 999.9 V $\pm$ (0.7% + 2 digits)
AC voltage	0.05–99.99 V $\pm$ (1.0% + 5 digits) 999.9 V, 50–500 Hz
VFD AC voltage	0.05–99.99 V, 50–60 Hz $\pm$ (1% + 5 digits) 999.9 V, 50–60 Hz $\pm$ (1% + 5 digits)
DC current	99.99 A $\pm$ (2% + 0.5 A) 599.9 A $\pm$ (2% + 5 digits)*
AC current	0.10–99.99 A, 50–60 Hz $\pm$ (2% + 5 digits)* 599.9 A, >60–400 Hz $\pm$ (2.5% + 5 digits)*
VFD AC current	0.10–99.99 A, 50–60 Hz $\pm$ (2% + 5 digits)* 599.9 A, 50–60 Hz $\pm$ (2% + 5 digits)*
Peak hold AC voltage	140.0 V $\pm$ (3.0% + 15 digits) 1400 V $\pm$ (3.0% + 15 digits)
Peak hold AC current	140.0 A $\pm$ (3.5% + 15 digits) 850 A $\pm$ (3.5% + 15 digits)
Frequency	20.00–99.99 Hz $\pm$ (0.5% + 3 digits) 20.0–999.9 Hz $\pm$ (0.5% + 3 digits) 0.020–9.999 kHz $\pm$ (0.5% + 3 digits)
Total harmonic distortion (AC A/AC V)	99.9% $\pm$ (3.0% + 10 digits)

**P/N: CM82**

© 2015, FLIR Systems, Inc.  
#CM82; r. 23377; en-US

<b>Measurement</b>	
Harmonic distortion H01–H12	99.90%
Harmonic distortion H13–H25	99.90%
Inrush current (AC)	99.99 A $\pm$ (3% + 0.3 A) 599.9 A $\pm$ (3% + 5 digits)*
Watts (DC)	9.999 kW (10 V, 5 A min) $\pm$ (3% + 0.05 kW) 99.99 kW (10 V, 5 A min) $\pm$ (3% + 0.5 kW) 599.9 kW (10 V, 5 A min) $\pm$ (3% + 10 digits)
Watts (AC)	9.999 kW (10 V, 5 A min) $\pm$ (3% + 10 digits) 99.99 kW (10 V, 5 A min) $\pm$ (3% + 10 digits) 599.9 kW (10 V, 5 A min) $\pm$ (3% + 10 digits)
Power factor	–1.00 to 0.00 to +1.00 $\pm$ (3% $\pm$ 1 digit)
Resistance	999.9 $\Omega$ $\pm$ (1.0% + 5 digits) 9.999 k $\Omega$ $\pm$ (1.0% + 3 digits) 99.99 k $\Omega$ $\pm$ (1.0% + 3 digits)
Continuity	999.9 $\Omega$ $\pm$ (1.0% + 5 digits)
Diode	0.40–0.80 V $\pm$ 0.1 V
Capacitance	3.999 $\mu$ F $\pm$ (1.9% + 8 digits) 39.99 $\mu$ F $\pm$ (1.9% + 8 digits) 399.9 $\mu$ F $\pm$ (1.9% + 8 digits) 3.999 mF $\pm$ (1.9% + 8 digits)
Measuring rate	3 times per second
<b>Meter data</b>	
Jaw opening	1.45" (37 mm)
Category rating	CAT IV—600 V, CAT III—1000 V
Data recording	N/A
Warranty	Limited lifetime
Calibration cycle	Once per year
<b>Certifications</b>	
Certifications	UL, CE, FCC
Safety standards compliance	IEC 61010-1 CAT IV—600 V, CAT III—1000 V, IEC 61010-2-033
<b>Power system</b>	
Power requirements	6 $\times$ 1.5 V AAA alkaline batteries
Battery life	Approximately 50 hours with alkaline batteries (backlight and work light are off)
Auto power off	Approximately 30 minutes
<b>Environmental data</b>	
Operating ambient temperatures and relative humidity (RH)	32–50°F (0–10°C) (non-condensing) 50–86°F (10–30°C) ( $\leq$ 80% RH) 86–104°F (30–40°C) ( $\leq$ 75% RH) 104–122°F (40–50°C) ( $\leq$ 45% RH)
Storage temperature and RH	
Temperature coefficient	0.2 $\times$ (specified accuracy)/°C, <18°C, >28°C
Operating altitude	6562' (2000 m)
Pollution degree	2
EMC	EN 61326-1
Shock vibration	Random vibration per MIL-PRF-28800f Class 2 (5–55 Hz, 3g maximum)





## FLIR CM82: 600 Amp Power Clamp Meter with VFD Mode

### P/N: CM82

© 2015, FLIR Systems, Inc.

#CM82; r. 23377; en-US

Meter physical data	
Weight	20.8 oz. (590 g) including batteries
Dimensions (H x W x L)	1.9" x 3.9" x 10.3" (49 mm x 100 mm x 262 mm)
Material	PC-ABS, TPE
Color	Grey and black
Shipping information	
Packaging type	Color box with view of product in clamshell
Packaging contents	CM82 FLIR meter, TA80 CAT IV silicon test leads, 6 x AAA Energizer batteries, user manual (English)/CD (translations)
Packaging weight	1.02 kg (2.25 lb.)
Packaging dimensions (H x W x L)	32 cm x 14 cm x 11 cm (12.6" x 5.5" x 4.3")
Carton weight	13.6 kg (30 lb.)
Carton dimensions (H x W x L)	13 7/8" x 11 1/2" x 24-1/8"
Carton quantity	12
EAN-13	0793950370827
UPC-12	793950370827
Country of origin	Taiwan
Tariff code	9030310000
Technical support	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>
Accessories	
TA11. EVA Protective case for CM8x and CM7x Series	
TA55. AC Current Line Splitter	
TA70. CAT IV Insulated Alligator Probes	
TA80. CAT IV Silicone Test Leads	

## P/N: CM83

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: CM83  
Commit: 23377  
Language: en-US  
Modified: 2015-02-24 14:06  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



The FLIR CM83 is an industrial-grade power clamp meter engineered with advanced power analysis and variable-frequency drive (VFD) filtering functions required by electrical troubleshooters.

- VFD mode provides superior accuracy for working on VFD-controlled equipment.
- Advanced power efficiency and harmonics measurements for system-level performance analysis.
- Powerful work lights not only assist with clamping but are bright enough to serve as a primary work light.
- FLIR Tools Mobile connects the FLIR CM83 to your compatible smartphone and tablet via Bluetooth.
- METERLINK technology wirelessly integrates electrical readings on your infrared image with FLIR thermal cameras.

### Features:

Voltage and current, bright white LED backlight, analog bargraph, power factor, phase rotation, integrated non-contact voltage detector, minimum, maximum, average, auto power off, data hold, relative, peak hold, DCA zero, battery status

Measurement	
AC/DC current	600 A $\pm$ 2%
AC/DC voltage	1000.0 V $\pm$ 1%/0.7%
Harmonics (1st–25th order)	5%
Inrush	600 ACA $\pm$ 3% (integration time 100ms)
Active power	10–600 kW $\pm$ 3% (10 V, 5 A minimum)
Diode test	0.4–0.8 V $\pm$ 0.1 V
Capacitance	3.999 mF maximum $\pm$ 1.9%
Resistance	99.99 k $\Omega$ maximum $\pm$ 1%
Continuity threshold	30 $\Omega$ $\pm$ 1%
Frequency	20.00 Hz to 9.999 kHz $\pm$ 0.5%
Maximum voltage applied to any terminal	1000 V DC or 1000 V AC RMS
Measuring rate	3 samples per second
Meter data	
Jaw opening	37 mm (1.45", 1000 MCM)
Bluetooth range (maximum)	10 m (32')
Category rating	CAT IV-600 V, CAT III-1000 V

**P/N: CM83**

© 2015, FLIR Systems, Inc.  
#CM83; r. 23377; en-US

Meter data	
Data recording	N/A
Warranty	Limited lifetime
Calibration cycle	Once per year (suggested)
Certifications	
Certifications	UL, CE, FCC, CB
Complies with safety standards	IEC 61010-1 CAT IV-600 V and CAT III-1000 V, IEC 61010-2-33
Power system	
Power requirements	6 × 1.5 V AAA alkaline batteries
Battery life	~50 hours with alkaline batteries (backlight, work light, and Bluetooth off)
Auto power off	Default: 30 minutes
Environmental data	
Operating ambient temperature and relative humidity (RH)	<ul style="list-style-type: none"> <li>–10 to 30°C (14–86°F), &lt;85% RH</li> <li>30–40°C (86–104°F), &lt;75% RH</li> <li>40–50°C (104–122°F), &lt;45% RH</li> </ul>
Storage temperature and RH	–10 to 50°C (–22 to 140°F), 0–80% RH (batteries not fitted)
Temperature coefficient	0.2 × (specified accuracy)/°C, <18°C, >28°C
Operating altitude	2000 m (6550')
Pollution degree	2
Electromagnetic compatibility	EN 61326-1
Shock vibration	Random vibration per MIL-PRF-28800f Class 2 (5–55 Hz, 3g maximum)
Environmental conditions	Indoor use
Meter physical data	
Weight	0.59 kg (1.29 lb.), including batteries
Dimensions (H × W × L)	49 mm × 100 mm × 262 mm (1.9" × 3.9" × 10.3").
Material	<ul style="list-style-type: none"> <li>Polycarbonate and acrylonitrile butadiene styrene (PC-ABS)</li> <li>Thermoplastic elastomer (TPE)</li> </ul>
Color	Gray, black
Shipping information	
Packaging type	Color box with view of product in clamshell
Packaging contents	<ul style="list-style-type: none"> <li>CM83 FLIR meter</li> <li>TA80 CAT IV silicon test leads</li> <li>6 × AAA Energizer batteries</li> <li>User manual (English), CD (translations)</li> </ul>
Packaging weight	1.02 kg (2.25 lb.)
Packaging dimensions (H × W × L)	32 cm × 14 cm × 11 cm (12.6" × 5.5" × 4.3")
Carton weight	23.0 kg (50.7 lb.)
Carton dimensions (H × W × L)	56 cm × 30 cm × 65 cm (22.0" × 11.8" × 25.6")
Carton quantity	20
EAN-13	0793950370834
UPC-12	793950370834
Country of origin	Taiwan
Tariff code	9030310000
Accessories	
TA80	CAT IV silicon test leads



---

**P/N: CM83**

© 2015, FLIR Systems, Inc.  
#CM83; r. 23377; en-US

Technical support	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>

## P/N: CM85

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: CM85  
Commit: 22843  
Language: en-US  
Modified: 2015-01-29 12:34  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Part Number	CM85
Part Name	1000 Amp Power Clamp Meter with VFD Mode and METERLiNK™
Part Description	<p>The FLIR CM85 is an industrial-grade High Capacity Power Clamp Meter with the advanced power analysis and VFD filtering functions desired by electrical troubleshooters. It's Versatility is engineered to Help You Manage Power Analysis &amp; VFD Troubleshooting for full scale equipment. The CM85 incorporates numerous features, VFD, Harmonics, Inrush Current and Phase Rotation – that are designed to enable users to accurately analyze voltage, current and frequency going into and out of complex machinery. The rugged CM85 also has an extremely bright dual LED worklight to illuminate work areas.</p> <ul style="list-style-type: none"> <li>• 1,000 Amp clamp capacity for large electrical equipment</li> <li>• VFD Mode provides superior accuracy for working on Variable Frequency Drive controlled equipment</li> <li>• Advanced power efficiency and harmonics measurements for system level performance analysis</li> <li>• Inrush mode captures fast AC Current spikes during appliance start-up</li> <li>• Phase Rotation testing ensures the motor and power source are aligned</li> <li>• True RMS DMM functionality features reliable performance and expansive ranges</li> <li>• Powerful worklights are bright enough to serve as a primary worklight</li> <li>• FLIR tools mobile connects the FLIR CM85 to your compatible smart phone and tablet via Bluetooth</li> <li>• METERLiNK™ technology wirelessly integrates electrical readings on your infrared image with FLIR Thermal Cameras See <a href="http://flir.com/test">flir.com/test</a> for more infor</li> </ul>
<b>Measurement Ranges and Accuracy</b>	
Voltage DC	99.99 V, $\pm(0.7\% + 2 \text{ dgt})$ 999.9 V, $\pm(0.7\% + 2 \text{ dgt})$
Voltage AC	0.05–99.99 V, $\pm(1.0\% + 5 \text{ dgt})$ 999.9 V, 50–500 Hz

**P/N: CM85**

© 2015, FLIR Systems, Inc.  
#CM85; r. 22843; en-US

<b>Measurement Ranges and Accuracy</b>	
VFD, ACV	0.05–99.99 V, 50–60 Hz $\pm$ (1% + 5 dgt) 999.9 V, 50–60 Hz $\pm$ (1% + 5 dgt)
Current DC	99.99 A, $\pm$ (2% + 0.5 A) 999.9 A, $\pm$ (2% + 5 dgt)*
Current AC	0.10–99.99 A, 50–60 Hz $\pm$ (2% + 5 dgt)* 999.9 A, >60–400 Hz $\pm$ (2.5% + 5 dgt)*
VFD, ACA	0.10–99.99 A, 50–60 Hz $\pm$ (2% + 5 dgt)* 999.9 A, 50–60 Hz $\pm$ (2% + 5 dgt)*
Peak Hold ACV	140.0 V, $\pm$ (3.0% + 15 dgt) 1400 V, $\pm$ (3.0% + 15 dgt)
Peak Hold ACA	140.0 A, $\pm$ (3.5% + 15 dgt) 1400 A, $\pm$ (3.5% + 15 dgt)
Frequency	20.00–99.99 Hz, $\pm$ (0.5% + 3 dgt) 20.0–999.9 Hz, $\pm$ (0.5% + 3 dgt) 0.020–9.999 kHz, $\pm$ (0.5% + 3 dgt)
Total harmonic distortion ACA/ACV	99.9%, $\pm$ (3.0% + 10 dgt)
Harmonic distortion H01–H12	99.9%, $\pm$ (5% + 10 dgt)
Harmonic distortion H13–H25	99.9%, $\pm$ (10% + 10 dgt)
Inrush current ACA	99.99 A, $\pm$ (3% + 0.3 A) 999.9 A, $\pm$ (3% + 5 dgt)*
Watts DC	9.999 kW (10 V, 5 A min), $\pm$ (3% + 0.05 kW) 99.99 kW (10 V, 5 A min), $\pm$ (3% + 0.5 kW) 999.9 kW (10 V, 5 A min), $\pm$ (3% + 10 dgt)
Watts AC	9.999 kW (10 V, 5 A min), $\pm$ (3% + 10 dgt) 99.99 kW (10 V, 5 A min), $\pm$ (3% + 10 dgt) 999.9 kW (10 V, 5 A min), $\pm$ (3% + 10 dgt)
Power factor	–1.00 to 0.00 to +1.00, $\pm$ 3° $\pm$ 1 dgt
Resistance	999.9 $\Omega$ , $\pm$ (1.0% + 5 dgt) 9.999 k $\Omega$ , $\pm$ (1.0% + 3 dgt) 99.99 k $\Omega$ , $\pm$ (1.0% + 3 dgt)
Continuity	999.9 $\Omega$ , $\pm$ (1.0% + 5 dgt)
Diode	0.40–0.80 V, $\pm$ 0.1V
Capacitance	3.999 $\mu$ F, $\pm$ (1.9% + 8 dgt) 39.99 $\mu$ F, $\pm$ (1.9% + 8 dgt) 399.9 $\mu$ F, $\pm$ (1.9% + 8 dgt) 3.999 mF, $\pm$ (1.9% + 8 dgt)
Measuring rate:	3 times per second
<b>Meter Data</b>	
Jaw Opening	45 mm (1.77 in.).
Bluetooth Range Max	10 m (32 ft.) maximum.
Category Rating	CAT IV-600 V, CAT III-1000 V
Data Recording	N/A
Warranty	Limited lifetime with Registration
Calibration cycle:	Once per year
<b>Certifications</b>	
Certifications	UL, CE, FCC Class B
Complies with Safety Standards:	IEC 61010-1 CAT IV-600 V, CAT III-1000 V, IEC 61010-2-033.

**P/N: CM85**

© 2015, FLIR Systems, Inc.  
#CM85; r. 22843; en-US

<b>Power System</b>	
Power requirements:	6 × 1.5 V AAA alkaline batteries.
Battery life:	50 hours with alkaline batteries (backlight, work light, and Bluetooth are off).
Auto power off:	Approx. 30 minutes.
<b>Environmental Data</b>	
Operating ambient temperatures and relative humidity:	0 to 10°C (32 to 50 °F)(non-condensing) 10 to 30 °C (50 to 86 °F) (≤ 80% RH) 30 to 40 °C (86 to 104 °F) (≤ 75% RH) 40 to 50 °C (104 to 122 °F) (≤ 45%RH)
Storage temperature and relative humidity:	–10 to 50 °C (14 to 122 °F). 0–80% RH (batteries not fitted).
Temperature coefficient:	0.2 × (specified accuracy)/°C, <18 °C, >28 °C.
Operating altitude:	2000 m (6562')
Pollution degree:	2
EMC:	EN 61326-1
Shock vibration:	Random vibration per MIL-PRF-28800f Class 2 (5–55 Hz, 3g maximum)
<b>Meter Physical Data</b>	
Weight:	0.59 kg (1.29 lb.), including batteries.
Dimensions (H × W × L):	49 mm × 100 mm × 262 mm (1.9" × 3.9" × 10.3").
Material	Polycarbonate + acrylonitrile butadiene styrene (PC-ABS) Thermoplastic elastomer (TPE)
Color	Grey, Black
<b>Shipping Information</b>	
Packaging, type	Color box with view of product in clamshell
Packaging, Contents:	<ul style="list-style-type: none"> <li>• CM85 FLIR meter</li> <li>• TA80 CAT IV silicon test leads</li> <li>• 6 × AAA Energizer batteries</li> <li>• User manual (English), CD (translations)</li> </ul>
Packaging weight	1.02 kg (2.25 lb.)
Packaging dimensions (H × W × L)	32 cm × 14 cm × 11 cm (12.6" × 5.5" × 4.3")
Carton weight	13.6 kg (30 lb)
Carton dimensions (H × W × L)	13-7/8 × 11-1/2 × 24-1/8"
Carton Quantity	12
EAN-13	0793950370858
UPC-12	793950370858
Country of Origin	Taiwan
Tariff Code	9030310000
<b>Technical support</b>	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>
<b>Accessories</b>	
TA11..EVA Protective Case for CM7x and CM8x Series	
TA55..AC Current Line splitter	
TA70..CAT IV Insulated Alligator Probes	
TA80..CAT IV Silicone Test Leads	

## P/N: DM92

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: DM92  
Commit: 23377  
Language: en-US  
Modified: 2015-02-24 14:06  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Part number	DM92
Part name	Industrial Digital Multimeter with LoZ and VFD Mode
Part description	<p>The FLIR DM92 is an industrial-grade digital multimeter built for durability to ensure longevity in rugged environments.</p> <ul style="list-style-type: none"> <li>Variable frequency drive (VFD) mode filters noisy variable-frequency drives and enables accurate voltage and frequency measurements for maintenance and trouble-shooting tasks.</li> <li>Low impedance (LoZ) eliminates ghost voltage errors from long wires that share a conduit.</li> <li>Convenient LED work lights assist with focusing on test leads without the need to also hold a flashlight.</li> </ul> <p>Functions: DC voltage, AC voltage, DC current, AC current, resistance, type K thermocouple contact temperature, capacitance, frequency, diode, continuity, duty cycle.</p> <p>Features: VFD mode, LoZ mode, minimum, maximum, average recording, auto power off, hold, relative, peak hold, store, recall.</p>
<b>Measurement</b>	
Maximum voltage	1000 V DC or 1000 V AC RMS
Display count	4000/40 000
Frequency counter	400.00 Hz $\pm$ 5 digits 4.0000 kHz $\pm$ 5 digits 40.000 kHz $\pm$ 5 digits 100.00 kHz $\pm$ 5 digits
Resistance	400.0 $\Omega$ $\pm$ (0.2% + 2 digits) 4.000 k $\Omega$ $\pm$ (0.2% + 1 digit) 40.00 k $\Omega$ $\pm$ (0.2% + 1 digit) 400.0 k $\Omega$ $\pm$ (0.2% + 1 digit) 4.000 M $\Omega$ $\pm$ (1.0% + 1 digits) 40.00 M $\Omega$ $\pm$ (2.0% + 20 digits)
Continuity check	400.0 $\Omega$ $\pm$ (0.2% + 2 digits)
Diode test	2.000 $\pm$ (1.5% + 2 digits)



**P/N: DM92**

© 2015, FLIR Systems, Inc.  
#DM92; r. 23377; en-US

<b>Measurement</b>	
Capacitance	40.00 nF $\pm$ (1.2% + 20 digits) 400.0 nF $\pm$ (0.9% + 2 digits) 4.000 $\mu$ F $\pm$ (0.9% + 2 digits) 40.00 $\mu$ F $\pm$ (0.9% + 2 digits) 400.0 $\mu$ F $\pm$ (0.9% + 2 digits) 4.000 mF $\pm$ (1.2% + 20 digits) 40.00 mF $\pm$ (2.0% + 20 digits)
Temperature	-328 to 2192°F $\pm$ (1.0% + 36 digits), -200 to 1200°C $\pm$ (1.0% + 20 digits)
Measuring rate	10 samples per second
<b>Meter data</b>	
Category rating	CAT IV—600 V, CAT III—1000 V
Data recording	20 000 points (125 days maximum)
Warranty	Limited lifetime warranty
Calibration cycle:	Once per year, recommended
<b>Certifications</b>	
Certifications	UL, CE, FCC, CB
Safety standards compliance	IEC 61010-1 CAT IV—600 V, CAT III—1000 V, IEC 61010-2-033
<b>Power system</b>	
Power requirements	6 $\times$ 1.5 V AAA alkaline batteries
Battery life	Approximately 100 hours with batteries (backlight and work light off)
Auto power off	Default: 10 minutes
<b>Environmental data</b>	
Operating ambient temperatures and relative humidity (RH)	14–86°F (-10 to 30°C), <85% RH 86–104°F (30–40°C), <75% RH 104–122°F (40–50°C), <45% RH
Storage temperature and RH	-22 to 140°F (-30 to -60°C), 0–80% RH (batteries not fitted)
Temperature coefficient	0.1 $\times$ (specified accuracy)/°C, <18°C, >28°C
Operating altitude	6560' (2000 m)
Pollution degree	2
EMC	EN61326-1
Shock vibration	Per MIL-PRF-28800 for a Class 2 instrument
<b>Meter physical data</b>	
Weight	16.4 oz. (465 g) including batteries
Dimensions (H $\times$ W $\times$ L)	2.0" $\times$ 3.2" $\times$ 7.4" (52 mm $\times$ 83 mm $\times$ 188 mm) with holster
Material	PC-ABS, TPE
Color	Gray and black
<b>Shipping information</b>	
Packaging type	Color box with view of product in clamshell
Packaging contents	DM92 FLIR meter, TA80 premium test leads, 6 $\times$ AAA Energizer batteries, user manual/CD
Packaging weight	1.04 kg (2.29 lb.)
Packaging dimensions (H $\times$ W $\times$ L)	11 cm $\times$ 14 cm $\times$ 32 cm (4.3" $\times$ 5.5" $\times$ 12.6")
Carton weight	13.5 kg (29.5 lb.)



**P/N: DM92**

© 2015, FLIR Systems, Inc.

#DM92; r. 23377; en-US

Shipping information	
Carton dimensions (H x W x L)	13 7/8" x 11 1/2" x 24 1/8"
Carton quantity	12
EAN-13	0793950370926
UPC-12	793950370926
Country of Origin	Taiwan
Tariff Code	9030310000
Technical support	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>
Accessories	
TA10. EVA Protective case for DM9x and IM7x Series	
TA50. Magnetic Hanging Strap	
TA60. Thermocouple Adapter with Type K Probe	
TA70. CAT IV Insulated Alligator Probes (Slip On)	
TA80. CAT IV Silicone Test Leads	

## P/N: DM93

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: DM93  
Commit: 23377  
Language: en-US  
Modified: 2015-02-24 14:06  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



The FLIR DM93 is a world-class digital multimeter with advanced variable-frequency drive (VFD) filtering to help you accurately analyze non-traditional sine waves and noisy signals found in VFD-controlled equipment.

- VFD mode filters VFD signals and provides accurate voltage and frequency measurements during maintenance and troubleshooting.
- LoZ mode eliminates ghost voltage readings associated with long-run applications.
- Powerful work lights eliminate the need for a flashlight while performing tests in dim lighting.
- The data record feature captures electrical measurements and provides wireless data transfer.
- Integrated Bluetooth technology connects the FLIR DM93 to the FLIR Tools Mobile app on your compatible mobile device.
- METERLINK technology wirelessly integrates electrical readings on your infrared image with FLIR thermal cameras.

### Features:

Voltage and current, bright white LED backlight, analog bargraph, auto AC/DC voltage, minimum, maximum, average recording, auto power off, hold, relative, peak hold, store, recall.

Measurement	
DC voltage	1000.0 V $\pm$ 0.05%
AC voltage	1000.0 V $\pm$ 0.5%
VFD voltage	1000.0 V $\pm$ 0.5%
DC current	10.000 A $\pm$ 0.2%
AC current	10.000 A $\pm$ 1.0%
Resistance	40.00 M $\Omega$ $\pm$ 0.2%
Continuity threshold	30 $\Omega$ $\pm$ 0.2%
Frequency	100.00 kHz $\pm$ 5 digits
Capacitance	40.00 mF $\pm$ 0.9%
Temperature	-200 to 1200°C (-328 to 2192°F) $\pm$ 1.0%
Diode test	2V $\pm$ 1.5%
Maximum voltage applied to any terminal	1000 V DC or 1000 V AC RMS
ACV Bandwidth	20 kHz
ACA Bandwidth	10 kHz
Measuring rate:	10 samples per second

**P/N: DM93**

© 2015, FLIR Systems, Inc.  
#DM93; r. 23377; en-US

Meter data	
Bluetooth range (maximum)	10 m (32')
Display counts	40 000
Category rating	CAT IV-600 V, CAT III-1000 V
Data recording	20 000 points (125 days maximum)
Warranty	Limited lifetime
Calibration cycle	Once per year (suggested)
Certifications	
Certifications	UL, CE, FCC, CB
Complies with safety standards	IEC 61010-1 CAT IV-600 V and CAT III-1000 V, IEC 61010-2-33
Power system	
Power requirements	6 × 1.5 V AAA alkaline batteries
Battery life	~100 hours with alkaline batteries (backlight, work light, and Bluetooth off)
Low battery voltage	~7.0 V
Auto power off	Default: 10 minutes
Environmental data	
Drop test	3 m (9.8 ft.)
IP rating	IP54 dust-protected and splash-resistant
Operating ambient temperatures and relative humidity (RH)	<ul style="list-style-type: none"> <li>–10 to 30°C (14–86°F), &lt;85% RH</li> <li>30–40°C (86–104°F), &lt;75% RH</li> <li>40–50°C (104–122°F), &lt;45% RH</li> </ul>
Storage temperature and RH	–30 to 60°C (–22 to 140°F), 0–80% RH (batteries not fitted)
Temperature coefficient	0.1 × (specified accuracy)/°C, <18°C, >28°C
Operating altitude	2000 m (6550')
Pollution degree	2
Electromagnetic compatibility	EN 61326-1
Shock vibration	Random vibration per MIL-PRF-28800f Class 2 (5–55 Hz, 3g maximum)
Meter physical data	
Weight	465 g (1 lb.) including batteries
Dimensions (H × W × L)	52 mm × 83 mm × 188 mm (2.0" × 3.2" × 7.4")
Material	<ul style="list-style-type: none"> <li>Polycarbonate and acrylonitrile butadiene styrene (PC-ABS)</li> <li>Thermoplastic elastomer (TPE)</li> </ul>
Color	Gray, black
Shipping information	
Packaging type	Color box with view of product in clamshell
Packaging contents	<ul style="list-style-type: none"> <li>DM93 FLIR meter</li> <li>TA80 premium test leads</li> <li>Type K temperature probe (400°F, 204°C)</li> <li>Magnetic hanging strap</li> <li>6 × AAA Energizer batteries</li> <li>User manual/CD</li> </ul>
Packaging weight	1.04 kg (2.29 lb.)
Packaging dimensions (H × W × L)	11 cm × 14 cm × 32 cm (4.3" × 5.5" × 12.6")
Carton weight	20.8 kg (45.9 lb.)
Carton dimensions (H × W × L)	65 cm × 30 cm × 56 cm (25.6" × 11.8" × 22.0")
Carton quantity	20

**P/N: DM93**

© 2015, FLIR Systems, Inc.  
#DM93; r. 23377; en-US

Shipping information	
EAN-13	0793950370933
UPC-12	793950370933
Country of origin	Taiwan
Tariff code	9030310000
Accessories	
TA80	CAT IV silicon test leads
Technical support	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>

## P/N: IM75

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: IM75  
Commit: 23377  
Language: en-US  
Modified: 2015-02-24 14:06  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Part number	IM75
Part name	Insulation Tester and Digital Multimeter with VFD Mode and METERLiNK
Part description	The FLIR IM75 is both an advanced multifunction digital multimeter and a premier handheld insulation tester with functions for installation, troubleshooting and maintenance for professionals. The FLIR IM75 includes several specialty insulation modes such as polarization index, dielectric absorption, and earth bond resistance. Insulation tests can be performed instantly, continuously, and over a timed duration to allow for in-depth assessment. The multi-color LED indicator in compare mode makes pass/fail determinations easy and visible. METERLiNK connectivity to the FLIR Tools Mobile app allows the remote display of readings on smart phones and tablets. Additionally, METERLiNK connectivity technology allows the user to view readings on a FLIR thermal camera that supports METERLiNK.
Part features	<ul style="list-style-type: none"> <li>Advanced insulation modes: insulation resistance, polarization index, dielectric absorption, and earth bond resistance.</li> <li>VFD mode for superior voltage and frequency accuracy, viewable on the dual LCD.</li> <li>Remote viewing of real-time readings on Android and iOS mobile devices with the free app (FLIR Tools Mobile).</li> <li>Document and analyze thermal changes during insulation measurements with METERLiNK FLIR thermal cameras.</li> <li>Extremely bright work lights (dual LEDs).</li> <li>Durable, rugged, double-molded construction.</li> <li>Ready for work with accessories silicone CAT IV test leads with screw-on alligator clips, magnetic hanging strap, thermocouple adapter, and general-purpose bead probe.</li> </ul>
<b>Measurement</b>	
Measurement rate	2 samples per second, nominal
Display rate	2 times per second
Input impedance	3 MΩ V DC/V AC <100 pF
AC voltage bandwidth	50–500 Hz
DC voltage	1000.0 V ± (0.1% + 5 digits)

**P/N: IM75**

© 2015, FLIR Systems, Inc.  
#IM75; r. 23377; en-US

<b>Measurement</b>	
AC voltage	1000.0 V: 50–60 Hz $\pm$ (1.5% + 5 digits), 61–500 Hz $\pm$ (2.0% + 5 digits)
VFD AC voltage	1000.0 V: 50–60 Hz $\pm$ (1.5% + 5 digits), 61–500 Hz, $\pm$ (5.0% + 5 digits)
Earth bond resistance	40.00 $\Omega$ $\pm$ (1.5% + 5 digits)* 400.0 $\Omega$ $\pm$ (1.5% + 3 digits) 4000 $\Omega$ $\pm$ (1.5% + 3 digits) 40.00 k $\Omega$ $\pm$ (1.5% + 3 digits)
Continuity	400.0 $\Omega$ $\pm$ (0.5% + 2 digits)
Diode	2.000 V $\pm$ (1.5% + 2 digits)
Capacitance	1000 $\mu$ F $\pm$ (1.2% + 2 digits) 10.00 mF $\pm$ (1.2% + 20 digits)
Frequency (AC V)	400.0 Hz $\pm$ 5 digits 4.000 kHz $\pm$ 5 digits 40.00 kHz $\pm$ 5 digits
Insulation resistance	4.000 M $\Omega$ $\pm$ (1.5% + 5 digits) 40.00 M $\Omega$ $\pm$ (1.5% + 5 digits) 400.0 M $\Omega$ $\pm$ (3.0% + 5 digits) 4000 M $\Omega$ $\pm$ (3.0% + 5 digits) 4.1–20.0 G $\Omega$ $\pm$ (10.0% + 3 digits)
Insulation resistance test voltages	50 V, 50.0 M $\Omega$ 100 V, 100.0 M $\Omega$ 250 V, 250.0 M $\Omega$ 500 V, 500.0 M $\Omega$ 1000 V, 20 G $\Omega$
Polarization index (PI)	10 min in test/1 min in test
Dielectric absorption ratio (DAR)	1 min in test/30 s in test
<b>Meter data</b>	
Category rating	CAT IV—600 V, CAT III—1000 V
Internal memory	99 storage locations
Warranty	Limited lifetime
Over-current protection (fuse)	440 mA/1000 V, ceramic fast-blow fuse with a minimum interrupt rating of 10 kA
<b>Certifications</b>	
Agency approvals	FCC Class B, CE, UL
<b>Power system</b>	
Power requirements	6 $\times$ 1.5 V AAA alkaline batteries
Battery life	Earth bond resistance measurements: 2600 with new alkaline batteries (standard tests of 1 $\Omega$ with a duty cycle of 5 seconds on and 25 seconds off). Insulation resistance: 1100 insulation resistance tests with new alkaline batteries (standard tests of 1 $\Omega$ with a duty cycle of 5 seconds on and 25 seconds off). This does not include Bluetooth or backlight use.
Auto power off	User programmable: up to 30 minutes in 1 minute increments, with audible pre-alert (20 seconds)
<b>Environmental data</b>	
Operating temperature	32–122°F (0–50°C)
Operating humidity	Maximum 80% up to 95°F (35°C) decreasing linearly to 60% at 113°F (45°C)

**P/N: IM75**

© 2015, FLIR Systems, Inc.  
#IM75; r. 23377; en-US

<b>Environmental data</b>	
Storage temperature	–4 to 140°F (–20 to 60°C)
Storage temperature and relative humidity	–20 to 60°C (–4 to 140°F), 80% maximum
Operating altitude	6561' (2000 m)
Pollution degree	2
EMC	EN 61326-1
Shock vibration	Per MIL-PRF-28800 for a Class 2 instrument
<b>Meter physical data</b>	
Display	4000 count with bar graph
Controls	9-position rotary switch, 4-way selector pad with center OK/TEST button, LED (pass (green), fail (red)), dedicated function buttons (5: mode, cancel, hold/lock, Bluetooth, backlight)
Backlight	White LEDs
Work lights	Two white LEDs
Weight:	1.4 lb. (630 g), including batteries
Dimensions (H × W × L)	3.7" × 8.1" × 2.0" (95 mm × 207 mm × 52 mm)
Material	PC-ABS, TPE
Color	Black
<b>Shipping information</b>	
Packaging type	Color box with view of product in clamshell
Packaging contents	IM75 FLIR meter, TA81 premium test probes with clips, CD with translated manuals, 6 × AAA Energizer batteries
Packaging dimensions (H × W × L)	11 cm × 14 cm × 32 cm (4.3" × 5.5" × 12.6")
Packaging weight	1.16 kg (2.55 lb.), including batteries
Carton weight	15 kg (33 lb.)
Carton dimensions	13 7/8" × 11 1/2" × 24-1/8"
Carton quantity	12
EAN-13	0793950370957
UPC-12	793950370957
Country of origin	Taiwan
Tariff code	9030330040
<b>Technical support</b>	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>
<b>Accessories</b>	
TA10. EVA Protective Case for DM9x and IM7x Series	
TA50. Magnetic Hanging Strap	
TA70. CAT IV Insulated Alligator Probes (Slip On)	
TA80. CAT IV Silicone Test Leads	



## P/N: MR77

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: MR77  
Commit: 23377  
Language: en-US  
Modified: 2015-02-24 14:06  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



The FLIR MR77 moisture meter performs all the critical and advanced measurements professionals demand. Its rugged design with field-replaceable sensors is engineered to reduce downtime.

- Field-replaceable temperature and relative humidity (RH) sensor.
- The integrated infrared (IR) thermometer provides fast non-contact surface temperature measurements.
- The remote pin-type probe (included) allows for contact moisture readings.
- The large LCD screen clearly displays moisture, humidity, and air temperature levels.
- FLIR Tools Mobile connects the FLIR MR77 to your compatible smartphone and tablet via Bluetooth.
- METERLINK technology wirelessly integrates moisture readings on your image with FLIR thermal cameras.
- All the sensors you need: integrated pinless moisture sensor, temperature and RH, IR thermometer, and external moisture pin probe.

### Features:

Grains per pound or grains per kilogram, dew point, condensation point, differential temperature (IR and dew point), material/wood groups, high/low humidity and moisture alarms, store, recall, minimum, maximum, data hold, auto power off, bright white LED backlight, low battery indication.

Measurement	
Ambient temperature	-28 to 77°C (-18 to 170°F) ± 2°C (3.6°F)
RH at 20–30°C (68–86°F)	0–10% ± 3% 10–90% ± 2.5% 90–99% ± 3%
Pin moisture via external probe range (accuracy)	0–99% WME ± 5%
Pin-less moisture range (accuracy)	0–99.9 relative measurement
IR temperature (8:1 distance to spot ratio)	20–0°C (-4 to 32°F) ± 5°C (± 9°F), 1– 200°C (33–392°F), greater of ± 3.5% or ± 5°C (± 9°F)
IR emissivity	0.95 fixed
Sample rate	2 per second
Vapor pressure range (accuracy)	0.0–20.0 kPa, greater of ± 2.0% or 0.2 kPa
Dew point temperature range	-30 to 100°C (-22 to 199°F)
Mixing ratio range	0–999 GPP (0–160 g/kg)

**P/N: MR77**

© 2015, FLIR Systems, Inc.  
#MR77; r. 23377; en-US

Meter data	
Bluetooth range (maximum)	10 m (32')
Bluetooth compatibility	FLIR Tools Mobile Android
Category rating	N/A
Data recording	20 points internal
Warranty	Limited lifetime
Calibration cycle	Annual (recommended)
Certifications	
Certifications	FCC
Complies with standards	FCC Class B
Power system	
Power requirements	9 V alkaline
Battery life	~100 hours with alkaline batteries (backlight and work light off)
Low battery voltage	N/A
Auto power off	~30 minutes with disable
Environmental data	
Operating ambient temperatures and RH	<ul style="list-style-type: none"> <li>0–50°C (32–122°F), 90% RH</li> <li>0–30°C (32–86°F), 75% RH</li> <li>30–40°C (86–104°F), 45% RH</li> <li>40–50°C (104–122°F)</li> </ul>
Storage temperature and RH	–10 to 60°C (14–140°F), 90% RH maximum
Physical data	
Weight	0.29 kg (0.65 lb.), including batteries
Dimensions (H × W × L)	139 mm × 72 mm × 42 mm (5.4" × 2.8" × 1.7")
Material	<ul style="list-style-type: none"> <li>Polycarbonate and acrylonitrile butadiene styrene (PC-ABS)</li> <li>Thermoplastic elastomer (TPE)</li> </ul>
Color	Gray, black
Shipping information	
Packaging type	Color box with view of product in clamshell
Packaging contents	<ul style="list-style-type: none"> <li>MR77 FLIR meter</li> <li>MR01 temperature and RH sensor</li> <li>MR02 wired pin probe</li> <li>9 V Energizer battery</li> <li>User manual (English), CD (translations)</li> </ul>
Packaging weight	0.70 kg (1.54 lb.)
Packaging dimensions (H × W × L)	13.5 cm × 11 cm × 30 cm (5.3" × 4.8" × 11.8")
Carton weight	15.00 kg (33.07 lb.)
Carton dimensions (H × W × L)	57 cm × 30 cm × 65 cm (22.4" × 11.8" × 52.6")
Carton quantity	20
EAN-13	0793950370773
UPC-12	793950370773
Country of origin	China
Tariff code	9025803500
Accessories	
MR01	Temperature/RH sensor
MR02	External pin moisture probe



---

**P/N: MR77**

© 2015, FLIR Systems, Inc.  
#MR77; r. 23377; en-US

Technical support	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>

## P/N: TG165

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: TG165  
Commit: 24650  
Language: en-US  
Modified: 2015-04-09 16:35  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Part number	TG165
Part name	Imaging IR Thermometer
Description	<p>FLIR's new TG165 imaging infrared (IR) thermometer bridges the gap between single-spot IR thermometers and FLIR's legendary thermal cameras. Equipped with FLIR's exclusive Lepton micro thermal camera, the FLIR TG165 shows you where potential problems are brewing and where to aim your spot.</p> <p>The FLIR TG165 lets you see heat patterns, reliably measure temperature, and store images and data. Its menu uses intuitive icons, making it simple to operate. The FLIR TG165 also makes documentation easy by saving images you can download from the micro-SD card or over a USB connection and use for reports.</p> <p>With a spot ratio of 24:1, dual laser pointers, and a wide temperature range from 13–716°F (–25 to 380°C), the FLIR TG165 helps you to capture reliable readings from safer distances.</p> <ul style="list-style-type: none"> <li>• See the heat and speed up troubleshooting.</li> <li>• Know where to measure temperature.</li> <li>• Grab and go simplicity—no special training required.</li> <li>• Pocket portable to fit a crowded tool bag.</li> <li>• Rugged and reliable.</li> </ul>
<b>IR temperature measurement</b>	
Basic accuracy	±1.5% or 1.5°C
Basic range	–25 to 380°C (14–716°F)
Detailed ranges and accuracy	<p>–25 to –10°C ± 3°C (–13 to 14°F ± 5°F)</p> <p>–10 to 0°C ± 2.0°C (–14–32°F ± 4°F)</p> <p>0–380°C ±1.5°C or 1.5%, whichever is greater (32–716°F ± 3% or 3°F, whichever is greater)</p>
Emissivity	4 pre-set levels with custom adjustment of 0.1–0.99
Distance to spot ratio (D:S)	24:1
Measurement resolution	0.1°C/°F
Response time	150 ms
Spectral response	8–14 μm

**P/N: TG165**

© 2015, FLIR Systems, Inc.  
#TG165; r. 24650; en-US

<b>IR temperature measurement</b>	
Lasers	Dual diverging lasers indicate the temperature measurement area, activated by pulling the trigger
Calibration	Soft button multi-point by authorized FLIR service center
IR temperature resolution	0.1°C
IR temperature response time	<150 ms
IR thermometer measurement acquisition	Continuous scanning
Emissivity	4 presets, adjustable from 0.1 to 0.99
IR thermometer spectral range	8–14 µm
Minimum measurement distance	26 cm (10")
<b>Thermal imaging</b>	
Imaging detector	FLIR Lepton, microbolometer focal plane array
Shutter	Integrated automatic shutter for auto flat field correction
Image resolution (H × W)	4800 pixels (80 × 60)
Spectral response	8–14 µm
Field of view (H × W)	50° × 38.6°
Upper scene range	127°C, 260°F (400K)
Sensitivity	<150mK
Image update speed frequency	9 Hz
Thermal image palettes	2: hot-iron and gray-scale
Thermal image minimum focus distance	10 cm (4")
<b>Power system</b>	
Battery	3.7 V, 2600 mA h lithium ion battery, rechargeable via micro USB
Auto power off	Adjustable with disable
Battery charge life	30 days minimum
Battery life	8 hours continuous scanning with lasers
Charging time	90% at 4 hours, 100% at 6 hours
<b>Image storage</b>	
Memory type	Micro SD card accessible via top flap
Saved image format	Bitmap (BMP) image with temperature and emissivity
Image storage capacity	75 000 pictures with included 8 GB SD card
Memory expansion	32 GB SD card maximum
File format	BMP with temperature values overlaid
<b>General information</b>	
Display type	2.0" TFT LCD
Display resolution (W × H)	38 720 pixels (176 × 220)
Tripod mount	1/4"-20 on handle bottom
Warranty	2 years product, 10 years thermal imaging detector
Calibration	Multi-point by authorized FLIR service center
Certifications	CE, FDA

**P/N: TG165**

© 2015, FLIR Systems, Inc.  
#TG165; r. 24650; en-US

<b>Environmental specifications</b>	
Drop test	Designed for 2 m (6.5')
Operating temperature	-10 to 45°C (14–113°F)
Storage temperature and relative humidity (RH)	-22 to 131°F (-30 to 55°C) 0–90% RH (32– 98.6°F (0–37°C)), 0–65% RH (98.6–113°F (37–45°C)), 0–45% RH (113–131°F (45–55°C))
<b>Meter physical data</b>	
Weight:	11 oz. (312 g)
Unit size (H × W × D)	7.3" × 2.2" × 3.7" (186 mm × 55 mm × 94 mm)
Material	PC-ABS, TPE
Color	Black, white, and silver
<b>Shipping information</b>	
Packaging type	Color box with view of product in clamshell
Packaging contents	TG165 imaging IR thermometer, 8 GB micro SD Card (installed in unit), quick-start guide (printed), translated user manual (on SD card, accessible via USB data and power micro USB cord), wrist strap lanyard, switching USB power supply with multiple plugs (US, UK, EU, AU, CN, KR (pending certification)), warranty registration notice FLIR T&M and camera card, quality management system card
Packaging dimensions (H × W × L)	34 cm × 15 cm × 12 cm (13.5" × 6" × 4.5")
Packaging weight	0.85 kg (1.8 lb.)
Carton dimensions	74 cm × 32 cm × 38 cm (30" × 13" × 15")
Carton weight	11.8 kg (26 lb.)
Carton quantity	12
EAN-13	0793950401651
UPC-12	793950401651
Country of origin	China
Tariff code	9025198080
<b>Technical support</b>	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>
<b>Accessories</b>	
TA13. EVA Protective Case for TG16X	Instock 11/1/14
TA14. Belt Holster for TG16X	Instock 11/1/14

## P/N: VP50

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: VP50  
Commit: 23377  
Language: en-US  
Modified: 2015-02-24 14:06  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



The FLIR VP50 CAT IV-rated non-contact voltage detector is designed to reliably detect voltages on the latest tamperproof outlets and electrical systems installed.

- Safe CAT IV-1000 V rating and toolbox-tough with a rubber-reinforced case and buttons, and a low-profile detection tip.
- Vibration and red LED alarms alert users to the presence of voltage in noisy areas.
- Versatile high/low-sensitivity modes detect voltage in industrial equipment and low-voltage installations.
- The powerful LED work light is always at the ready to illuminate poorly lit locations.
- The inspection light at the probe tip facilitates testing in dark areas.

Measurement	
AC voltage range (default, green light)	90–1000 V AC
AC excitation voltage/distance	90 V AC/0–5 cm
Frequency range	45–65 Hz
High-sensitivity mode (amber light)	24 V AC

Meter data	
Work light	~50–52 lumens
Tip light	Yes
Category rating	CAT IV-1000 V
Warranty	Limited lifetime
Calibration cycle	N/A

Certifications	
Certifications	UL, cUL, CE, CB

Power system	
Power requirements	2 × AAA alkaline batteries
Battery life	~7 hours continuous (work light off)
Low battery voltage	N/A
Auto power off	Yes

Environmental data	
Drop test	3 m (9.8 ft.)
Operating ambient temperatures	0–60°C (–32 to 140°F)
Storage temperature	–40 to 90°C (–40 to 194°F)
Temperature coefficient	N/A

Physical data	
Weight	0.20 kg (0.44 lb.), including batteries
Dimensions (H × W × L)	29 mm × 26 mm × 156 mm (1.1" × 1.0" × 6.1")
Material	<ul style="list-style-type: none"> <li>• Polycarbonate and acrylonitrile butadiene styrene (PC-ABS)</li> <li>• Thermoplastic elastomer (TPE)</li> </ul>
Color	Gray, black



## FLIR VP50

### P/N: VP50

© 2015, FLIR Systems, Inc.  
#VP50; r. 23377; en-US

Shipping information	
Packaging type	Color box with view of product in clamshell
Packaging contents	<ul style="list-style-type: none"><li>VP50 FLIR detector</li><li>2 × AAA Energizer batteries</li><li>User manual</li></ul>
Packaging weight	0.17 kg (0.38 lb.)
Packaging dimensions (H × W × L)	9 cm × 7 cm × 25 cm (3.5" × 2.8" × 9.8")
Carton weight	4.7 kg (10.3 lb.)
Carton dimensions (H × W × L)	36 cm × 38 cm × 28 cm (14.1" × 14.9" × 11.0")
Carton quantity	20
EAN-13	0793950400517
UPC-12	793950400517
Country of origin	China
Tariff code	9030330040
Accessories	
CS-VP50	Counter display with 10 VP50 units
VS-VP50-STANDONLY	Counter display
Technical support	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>



## P/N: VP52

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: VP52  
Commit: 23377  
Language: en-US  
Modified: 2015-02-24 14:06  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



The FLIR VP52 CAT IV-rated non-contact voltage detector is designed to reliably detect voltages on the latest tamperproof outlets and electrical systems installed.

- Safe CAT IV-1000 V rating and toolbox-tough with a rubber-reinforced case and buttons, and a low-profile detection tip.
- Vibration and red LED alarms alert users to the presence of voltage in noisy areas.
- Versatile high/low-sensitivity modes detect voltage in industrial equipment and low-voltage installations.
- The powerful LED work light is always at the ready to illuminate poorly lit locations.
- The inspection light at the probe tip facilitates testing in dark areas.

Measurement	
AC voltage range (default, green light)	190–1000 V AC
AC excitation voltage/distance	190 V AC/0–5 cm
Frequency range	45–65 Hz
High-sensitivity mode (amber light)	24 V AC

Meter data	
Work light	~50–52 lumens
Tip light	Yes
Category rating	CAT IV-1000 V
Warranty	Limited lifetime
Calibration cycle	N/A

Certifications	
Certifications	UL, cUL, CE, CB

Power system	
Power requirements	2 × AAA alkaline batteries
Battery life	~7 hours continuous (work light off)
Low battery voltage	N/A
Auto power off	Yes

Environmental data	
Drop test	3 m (9.8 ft.)
Operating ambient temperatures	0–60°C (–32 to 140°F)
Storage temperature	–40 to 90°C (–40 to 194°F)
Temperature coefficient	N/A

Physical data	
Weight	0.20 kg (0.44 lb.), including batteries
Dimensions (H × W × L)	29 mm × 26 mm × 156 mm (1.1" × 1.0" × 6.1")
Material	<ul style="list-style-type: none"> <li>• Polycarbonate and acrylonitrile butadiene styrene (PC-ABS)</li> <li>• Thermoplastic elastomer (TPE)</li> </ul>
Color	Gray, black



## FLIR VP52

### P/N: VP52

© 2015, FLIR Systems, Inc.  
#VP52; r. 23377; en-US

Shipping information	
Packaging type	Color box with view of product in clamshell
Packaging contents	<ul style="list-style-type: none"><li>• VP52 FLIR detector</li><li>• 2 × AAA Energizer batteries</li><li>• User manual</li></ul>
Packaging weight	0.17 kg (0.38 lb.)
Packaging dimensions (H × W × L)	9 cm × 7 cm × 25 cm (3.5" × 2.8" × 9.8")
Carton weight	4.7 kg (10.3 lb.)
Carton dimensions (H × W × L)	36 cm × 38 cm × 28 cm (14.1" × 14.9" × 11.0")
Carton quantity	20
EAN-13	0793950400524
UPC-12	793950400524
Country of origin	China
Tariff code	9030330040
Technical support	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>

## P/N: VS70

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: VS70  
Commit: 23377  
Language: en-US  
Modified: 2015-02-24 14:06  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



The FLIR VS70 is a rugged, waterproof, and shock-resistant videoscope that features intuitive handset controls that enable users to maneuver the narrow camera probe into tight spaces to deliver vivid and sharp video and images to a large 5.7" color LCD display. Advanced inspection solutions, expansion cameras, and add-on accessories enable users to expand their FLIR VS70 to address many different inspection needs. A camera (VSCxx or VSAxx) is needed for operation.

VS70 main unit general data	
LCD screen	145 mm (5.7"), 135 mm (5.3") viewable
Active matrix	640 × 480 pixels
Memory type	SD card (4 GB included, 32 GB maximum)
Compression format	MPEG4
Still image format	JPEG (640 × 480 pixels)
Video recording format	AVI (640 × 480 pixels)
Video output format	NTSC and PAL (frame rate 30 fps)
Multi-language menu	Yes, 26 languages
Receiver frequency	2.4 GHz
Receiver sensitivity	-87 dBm (SNR = 42 dB, Fmod = 15)
Data/video	Mini USB 1.1 and AV out
Audio	Earphone plug, 3.5 mm, 4 rings
Speaker	15 mm, 32 Ω, 20–20 kHz
Microphone	Boom microphone 6 mm × 5 mm (0.24" × 0.2"), total length 10 cm (3.9"), wire length 1.2 m (3.9')
Tripod mount	On rear, accepts standard tripod screw
Certifications	FCC, CE
Warranty	2 years, see website for details
VS70 main unit power system data	
Battery	3.7 V rechargeable lithium polymer
Battery life	6–8 hours
Power adapter	100–240 V input/5 V DC output
Battery status indication	Progressive with auto power off (APO)
VS70 main unit environmental data	
IP rating	67
Drop test	2 m
Operating temperature	-10 to 60°C (14 to 140°F)



## FLIR VS70: Videoscope Main Unit

### P/N: VS70

© 2015, FLIR Systems, Inc.

#VS70; r. 23377; en-US

VS70 main unit environmental data	
Operating humidity	80% maximum
Storage temperature	-40 to 80°C (-40 to 176°F)
VS70 main unit physical data	
Product weight	1.57 kg (3.46 lb.), including batteries
Product dimensions	241 mm × 178 mm × 70 mm (9.5" × 7" × 2.75")
Material	PC-ABS, rubber hand grip, nylon strap
Color	Gray, black
Shipping information	
Packaging type	White box, FLIR hard case
Packaging contents	VS70 videoscope, hard case, user manual (English), CD (translations), international USB power, 12V auto USB charger, headset with boom microphone, auto adapter for USB power, shoulder strap, camera cleaning kit
Packaging weight	7.5 kg
Packaging dimensions (H × W × L)	53 cm × 43.5 cm × 22 cm
Carton weight	16 kg
Carton size	55 cm × 46.5 cm × 46 cm
Carton quantity	2
EAN-13	0793950400708
UPC-12	793950400708
Tariff code	9013809000
Technical support	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>

## P/N: VS70-1

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: VS70-1  
Commit: 23377  
Language: en-US  
Modified: 2015-02-24 14:06  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



The General Purpose Long Focus Combo kit includes the VS70 base kit and a 8 mm long focus camera on a 1 m semi-rigid cable. This kit enables users to perform basic inspections and add options as needs grow.

SAP description	General Purpose Long Focus Combo
Kit contents	VS70 + VSC8.01R
<b>VS70 main unit general data</b>	
LCD screen	145 mm (5.7"), 135 mm (5.3") viewable
Active matrix	Active matrix, 640 × 480 pixels
Memory type	SD card 4 GB included (32 GB maximum)
Compression format	MPEG4
Still-image format	JPEG (640 × 480 pixels)
Video recording format	AVI (640 × 480 pixels)
Video output format	NTSC and PAL, frame rate 30 fps
Multi-language menu	Yes
Receiver frequency	2.4 GHz
Receiver sensitivity	-87 dBm (SNR = 42 dB, $F_{mod} = 15$ )
Data/video	Mini USB 1.1 and AV out
Audio	Earphone plug, 3.5 mm, 4 rings
Speaker	15 mm, 32 Ω, 20 Hz to 20 kHz
Microphone	Boom microphone 6 mm × 5 mm (0.24" × 0.2"), total length 10 cm (3.9"), wire length 1.2 m (3.9')
Tripod mount	On rear, accepts standard tripod screw
Certifications	FCC, CE
Warranty	2 years, see website for details
<b>VS70 main unit power system</b>	
Battery	3.7 V rechargeable lithium polymer
Battery life	6-8 hours
Power adapter	100-240 V input/5 V DC output
Battery status indication	Progressive with auto power off (APO)
<b>VS70 main unit environmental data</b>	
IP rating	67
Drop test	2 m
Operating temperature	-10 to 60°C (14 to 140°F)

**P/N: VS70-1**

© 2015, FLIR Systems, Inc.

#VS70-1; r. 23377; en-US

<b>VS70 main unit environmental data</b>	
Operating humidity	80% maximum
Storage temperature	–40 to 80°C (–40 to 176°F)
<b>VS70 main unit physical data</b>	
Product weight	1.57 kg (3.46 lb.), including batteries
Product dimensions	241 mm × 178 mm × 70 mm (9.5" × 7" × 2.75")
Material	PC-ABS, rubber hand grip, nylon strap
Colour	Gray, black
<b>Camera VSC80-1R (8 mm camera with 1 m SR probe—VGA via LF)</b>	
Diameter	8 mm
Resolution	VGA (640 × 480 pixels)
Probe length	1 m
Focal length	65 mm to infinity
Field of view	56°
Integrated handset	N/A
Wireless capabilities	N/A
Compatible main unit	VS70
Compatible wireless handset	VST
Compatible detachable cameras	N/A
Warranty	2 years
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED
Operating temperature	–10 to 50°C (14 to 122°F)
<b>Shipping information</b>	
Packaging type	Brown shipping box over hard case
Packaging contents	VS70 main unit, VSC80-1R (8 mm camera with 1 m SR probe—VGA via LF), VSA-80 (8 mm camera accessories: mirror, anti-snap tip, magnet), patch cable, 4 GB SD card, USB/video out cables, power adapters, vehicle charger, headset, neck strap, cleaning kit, VS-HC (VS70 hard case with camera storage), and user manual (printed English and translated on CD)
Packaging weight	7.5 kg
Packaging dimensions (H × W × L)	53 cm × 43.5 cm × 22 cm
Carton weight	16 kg
Carton dimensions (H × W × L)	55 cm × 46.5 cm × 46 cm
Carton quantity	2
EAN-13	0793950400715
UPC-12	793950400715
Country of origin	TW
Tariff code	9013809000
<b>Technical support</b>	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>

**P/N: VS70-1**

© 2015, FLIR Systems, Inc.  
#VS70-1; r. 23377; en-US

<b>Documentation</b>	
Manual languages (on CD and web)	Czech, Danish, German, Greece, English (US), Spanish (Spain), Finnish, French (France), Hungarian, Italian, Japanese, Korean, Bokmal Norwegian (Norway), Dutch Flemish (Netherlands), Polish, Portuguese (Portugal), Russian, Swedish, Chinese, Chinese (Taiwan)
<b>Suggested cameras and accessories</b>	
VST	Wireless handset
VS-2PC	2 m patch cable
VSA2-1-W	Wireless two-way 6 mm articulated camera with 1 m probe
VSC65-17S	17" stainless steel rigid probe
<b>Compatible cameras full list</b>	
VSA2-2M-W	Wireless two-way 6 mm articulated camera with 2 m probe via SF
VSA2-2-W	Wireless two-way 6 mm articulated camera with 2 m probe
VSA2-1M-W	Wireless two-way 6 mm articulated camera with 1 m probe via SF
VSA2-2	Two-way 6 mm articulated camera with 2 m probe
VSA2-2M	Two-way 6 mm articulated camera with 2 m probe via SF
VSA2-1	Two-way 6 mm articulated camera with 1 m probe
VSA2-1M	Two-way 6 mm articulated camera with 1 m probe via SF
VSC2-58-1FM	Two-channel camera with 5.8 mm diameter 1 m probe
VSC58-30M	5.8 mm camera with 30 m FG probe—QVGA via SF
VSC58-20M	5.8 mm camera with 20 m FG probe—QVGA via SF
VSS-30	30 m plumbing spool
VSS-20	20 m plumbing spool
VSC28	28 mm camera head for spool
VSC25	25 mm camera head for spool
VS-BR25	Centering brush for VS70 camera probes
VS-BR28	Centering brush for VS70 camera probes
VS-RB	Replacement centering brush
VSC65-12S	12" stainless steel rigid probe
VSC41-2RM	4.1 mm camera with 2 m SR probe—QVGA via SF
VSC39-1FM	3.9 mm camera with 1 m flex probe—QVGA via SF
VSC58-2R	5.8 mm camera with 2 m SR probe—VGA via LF
VSC58-2RM	5.8 mm camera with 2 m SR probe—VGA via SF
VSC58-1R	5.8 mm camera with 1 m SR probe—VGA via LF
VSC58-1RM	5.8 mm camera with 1 m SR probe—VGA via SF
VSC80-2R	8 mm camera with 2 m SR probe—VGA via LF
VSC80-1R	8 mm camera with 1 m SR probe—VGA via LF

## P/N: VS70-1-W

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: VS70-1-W  
Commit: 23377  
Language: en-US  
Modified: 2015-02-24 14:06  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



The Wireless General Purpose Combo kit includes the VS70, a wireless handset (VST), and a non-dedicated 8 mm long-focus camera on a 1 m semi-rigid cable. The wireless handset makes it easy to manipulate the camera probe while keeping the display in clear view.

SAP description	Wireless General Purpose Combo
Kit contents	VS70 + VST + VSC8.01R
<b>VS70 main unit general data</b>	
LCD screen	145 mm (5.7"), 135 mm (5.3") viewable
Active matrix	Active matrix, 640 × 480 pixels
Memory type	SD card 4 GB included (32 GB maximum)
Compression format	MPEG4
Still image format	JPEG (640 × 480 pixels)
Video recording format	AVI (640 × 480 pixels)
Video output format	NTSC and PAL, frame rate 30 fps
Multi-language menu	Yes
Receiver frequency	2.4 GHz
Receiver sensitivity	-87 dBm (SNR = 42 dB, $F_{mod} = 15$ )
Data/video	Mini USB 1.1 and AV out
Audio	Earphone plug, 3.5 mm, 4 rings
Speaker	15 mm, 32 Ω, 20 Hz to 20 kHz
Microphone	Boom microphone 6 mm × 5 mm (0.24" × 0.2"), total length 10 cm (3.9"), wire length 1.2 m (3.9')
Tripod mount	On rear, accepts standard tripod screw
Certifications	FCC, CE
Warranty	2 years, see website for details
<b>VS70 main unit power system</b>	
Battery	3.7 V rechargeable lithium polymer
Battery life	6–8 hours
Power adapter	100–240 V input/5 V DC output
Battery status indication	Progressive with auto power off (APO)
<b>VS70 main unit environmental data</b>	
IP rating	67
Drop test	2 m





## FLIR VS70: Wireless General Purpose Videoscope Combo

### P/N: VS70-1-W

© 2015, FLIR Systems, Inc.  
#VS70-1-W; r. 23377; en-US

VS70 main unit environmental data	
Operating temperature	–10 to 60°C (14 to 140°F)
Operating humidity	80% maximum
Storage temperature	–40 to 80°C (–40 to 176°F)
VS70 main unit physical data	
Product weight	1.57 kg (3.46 lb.), including batteries
Product dimensions	241 mm × 178 mm × 70 mm (9.5" × 7" × 2.75")
Material	PC-ABS, rubber hand grip, nylon strap
Color	Gray and black
Camera VSC80-1R general data	
SAP description	8 mm camera with 1 m SR probe—VGA via LF
Compatible main unit	VS70
Compatible wireless handset	VST
Compatible cameras	N/A
Diameter	8 mm
Resolution	VGA (640 × 480 pixels)
Probe length	1 m
Focal length	65 mm to infinity
Field of view	56°
Warranty	2 years
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED
Operating temperature	–10 to 50°C (14 to 122°F)
VST general data	
SAP description	Wireless 2.4 GHz VS70 transmitter
Compatible main unit	VS70
Compatible wireless handset	N/A
Compatible cameras	VSC3.9-1FM, VSC4.1-2RM, VSC5.8-1RM, VSC5.8-2RM, VSC5.8-1R, VSC5.8-2R, VSC5.8-20M, VSC5.8-30M, VSC8.0-1R, VSC8.0-2R, VSC6.5-12S, VSC6.5-17S, VSS-20, VSS-30
Wireless frequency	2.4 GHz to main unit
Video system	NTSC/PAL
Battery	3.7 V rechargeable lithium polymer
Charge time	~2 hours
Power adapter	100–240 V input/9 V DC output
Unobstructed effective range	10 m (32.5')
Operating temperature	–10 to 60°C (14 to 140°F)
Storage temperature	–40 to 80°C (–40 to 176°F)
Product dimensions	190 mm × 70 mm × 63.5 mm (7.5" × 2.75" × 2.5")
Weight (approximate)	0.43 kg (0.95 lb.)
Color	Gray and black
Warranty	2 years



## FLIR VS70: Wireless General Purpose Videoscope Combo

### P/N: VS70-1-W

© 2015, FLIR Systems, Inc.  
#VS70-1-W; r. 23377; en-US

VST power system	
Power requirements	Integrated rechargeable battery
Run time	2 hours continuous use
Auto power off	No
Shipping information	
Packaging type	Brown shipping box over hard case
Packaging contents	VS70 main unit, VSC80-1R (8 mm camera with 1 m SR probe—VGA via LF), VSA-80 (8 mm camera accessories: mirror, anti-snap tip, magnet), patch cable, 4 GB SD card, USB/video out cables, power adapters, vehicle charger, headset, neck strap, cleaning kit, VS-HC (VS70 hard case with camera storage), and user manual (printed English and translated on CD)
Packaging weight	7.5 kg
Packaging dimensions (H × W × L)	53 cm × 43.5 cm × 22 cm
Carton weight	16 kg
Carton dimensions (H × W × L)	55 cm × 46.5 cm × 46 cm
Carton quantity	2
EAN-13	0793950400722
UPC-12	793950400722
Country of origin	TW
Tariff code	9013809000
Technical support	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>
Documentation	
Manual languages (on CD and web)	Czech, Danish, German, Greece, English (US), Spanish (Spain), Finnish, French (France), Hungarian, Italian, Japanese, Korean, Bokmal Norwegian (Norway), Dutch Flemish (Netherlands), Polish, Portuguese (Portugal), Russian, Swedish, Chinese, Chinese (Taiwan)
Suggested cameras and accessories	
VS-2PC	2 m patch cable
VSA2-1-W	Wireless two-way 6 mm articulated camera with 1 m probe
VSC65-17S	17" stainless steel rigid probe
Compatible cameras full list	
VSA2-2M-W	Wireless two-way 6 mm articulated camera with 2 m probe SF
VSA2-2-W	Wireless two-way 6 mm articulated camera with 2 m probe
VSA2-1M-W	Wireless two-way 6 mm articulated camera with 1 m probe SF
VSA2-2	Two-way 6 mm articulated camera with 2 m probe
VSA2-2M	Two-way 6 mm articulated camera with 2 m probe via SF
VSA2-1	Two-way 6 mm articulated camera with 1 m probe
VSA2-1M	Two-way 6 mm articulated camera with 1 m probe via SF



## FLIR VS70: Wireless General Purpose Videoscope Combo

### P/N: VS70-1-W

© 2015, FLIR Systems, Inc.  
#VS70-1-W; r. 23377; en-US

Compatible cameras full list	
VSC2-58-1FM	Two-channel camera, 5.8 mm diameter 1 m probe
VSC58-30M	5.8 mm camera with 30 m FG probe—QVGA via SF
VSC58-20M	5.8 mm camera with 20 m FG probe—QVGA via SF
VSS-30	30 m plumbing spool
VSS-20	20 m plumbing spool
VSC28	28 mm camera head for spool
VSC25	25 mm camera head for spool
VS-BR25	Centering brush for VS70 camera probes
VS-BR28	Centering brush for VS70 camera probes
VS-RB	Replacement centering brush
VSC65-12S	12" stainless steel rigid probe
VSC41-2RM	4.1 mm camera with 2 m SR probe—QVGA via SF
VSC39-1FM	3.9 mm camera with 1 m flex probe—QVGA via SF
VSC58-2R	5.8 mm camera with 2 m SR probe—VGA via LF
VSC58-2RM	5.8 mm camera with 2 m SR probe—VGA via SF
VSC58-1R	5.8 mm camera with 1 m SR probe—VGA via LF
VSC58-1RM	5.8 mm camera with 1 m SR probe—VGA via SF
VSC80-2R	8 mm camera with 2 m SR probe—VGA via LF
VSC80-1R	8 mm camera with 1 m SR probe—VGA via LF

## P/N: VS70-2

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: VS70-2  
Commit: 23377  
Language: en-US  
Modified: 2015-02-24 14:06  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



The Small Opening Short Focus Combo (Wired) kit includes the VS70, a base kit, and a 5.8 mm short-focus camera on a 1 m semi-rigid cable. Built for close-up inspections.

SAP description	Small Opening Short Focus Combo (Wired)
Kit contents	VS70 + VSC5.8-1RM
<b>VS70 main unit general data</b>	
LCD screen	145 mm (5.7"), 135 mm (5.3") viewable
Active matrix	Active matrix, 640 × 480 pixels
Memory type	SD card 4 GB included (32 GB maximum)
Compression format	MPEG4
Still image format	JPEG (640 × 480 pixels)
Video recording format	AVI (640 × 480 pixels)
Video output format	NTSC and PAL, frame rate 30 fps
Multi-language menu	Yes
Receiver frequency	2.4 GHz
Receiver sensitivity	-87 dBm (SNR = 42 dB, $F_{mod} = 15$ )
Data/video	Mini USB 1.1 and AV out
Audio	Earphone plug, 3.5 mm, 4 rings
Speaker	15 mm, 32 Ω, 20 Hz to 20 kHz
Microphone	Boom microphone 6 mm × 5 mm (0.24" × 0.2"), total length 10 cm (3.9"), wire length 1.2 m (3.9')
Tripod mount	On rear, accepts standard tripod screw
Certifications	FCC, CE
Warranty	2 years, see website for details
<b>VS70 main unit power system</b>	
Battery	3.7 V rechargeable lithium polymer
Battery life	6-8 hours
Power adapter	100-240 V input/5 V DC output
Battery status indication	Progressive with auto power off (APO)
<b>VS70 main unit environmental data</b>	
IP rating	67
Drop test	2 m
Operating temperature	-10 to 60°C (14 to 140°F)



## FLIR VS70: Small Opening Short Focus Videoscope Combo

### P/N: VS70-2

© 2015, FLIR Systems, Inc.

#VS70-2; r. 23377; en-US

VS70 main unit environmental data	
Operating humidity	80% maximum
Storage temperature	–40 to 80°C (–40 to 176°F)
VS70 main unit physical data	
Product weight	1.57 kg (3.46 lb.), including batteries
Product dimensions	241 mm × 178 mm × 70 mm (9.5" × 7" × 2.75")
Material	PC-ABS, rubber hand grip, nylon strap
Color	Gray and black
Camera VSC58-1RM general data	
SAP description	5.8 mm camera with 1 m SR probe—VGA via SF
Compatible main unit	VS70
Compatible wireless handset	VST
Compatible cameras	N/A
Diameter	5.8 mm
Resolution	VGA (640 × 480 pixels)
Probe length	1 m
Focal length	20–60 mm
Field of view	56°
Warranty	2 years
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED
Operating temperature	–10°C to 50°C (14 to 122°F)
Shipping information	
Packaging type	Brown shipping box over hard case
Packaging contents	VS70 main unit, VSC58-1RM (5.8 mm camera with 1 m SR probe—VGA via SF), VSA-58 (5.8 mm camera accessories: mirror, anti-snap tip, magnet), patch cable, 4 GB SD card, USB/video out cables, power adapters, vehicle charger, headset, neck strap, cleaning kit, VS-HC (VS70 hard case with camera storage), and user manual (printed English and translated on CD)
Packaging weight	7.5 kg
Packaging dimensions (H × W × L)	53 cm × 43.5 cm × 22 cm
Carton weight	16 kg
Carton dimensions (H × W × L)	55 cm × 46.5 cm × 46 cm
Carton quantity	2
EAN-13	0793950400739
UPC-12	793950400739
Country of origin	TW
Tariff code	9013809000
Technical support	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>



## FLIR VS70: Small Opening Short Focus Videoscope Combo

### P/N: VS70-2

© 2015, FLIR Systems, Inc.  
#VS70-2; r. 23377; en-US

Documentation	
Manual languages (on CD and web)	Czech, Danish, German, Greece, English (US), Spanish (Spain), Finnish, French (France), Hungarian, Italian, Japanese, Korean, Bokmal Norwegian (Norway), Dutch Flemish (Netherlands), Polish, Portuguese (Portugal), Russian, Swedish, Chinese, Chinese (Taiwan)
Suggested cameras and accessories	
VST	Wireless 2.4 Ghz VS70 transmitter
VSA2-1-W	Wireless two-way 6 mm articulated camera with 1 m probe
VSC65-17S	17" stainless steel rigid probe
Compatible cameras full list	
VSA2-2M-W	Wireless two-way 6 mm articulated camera with 2 m probe via SF
VSA2-2-W	Wireless two-way 6 mm articulated camera with 2 m probe
VSA2-1M-W	Wireless two-way 6 mm articulated camera with 1 m probe via SF
VSA2-2	Two-way 6 mm articulated camera with 2 m probe
VSA2-2M	Two-way 6 mm articulated camera with 2 m probe via SF
VSA2-1	Two-way 6 mm articulated camera with 1 m probe
VSA2-1M	Two-way 6 mm articulated camera with 1 m probe via SF
VSC2-58-1FM	Two-channel camera, 5.8 mm diameter 1 m probe
VSC58-30M	5.8 mm camera with 30 m FG probe—QVGA via SF
VSC58-20M	5.8 mm camera with 20 m FG probe—QVGA via SF
VSS-30	30 m plumbing spool
VSS-20	20 m plumbing spool
VSC28	28 mm camera head for spool
VSC25	25 mm camera head for spool
VS-BR25	Centering brush for VS70 camera probes
VS-BR28	Centering brush for VS70 camera probes
VS-RB	Replacement centering brush
VSC65-12S	12" stainless steel rigid probe
VSC41-2RM	4.1 mm camera with 2 m SR probe—QVGA via SF
VSC39-1FM	3.9 mm camera with 1 m flex probe—QVGA via SF
VSC58-2R	5.8 mm camera with 2 m SR probe—VGA via LF
VSC58-2RM	5.8 mm camera with 2 m SR probe—VGA via SF
VSC58-1R	5.8 mm camera with 1 m SR probe—VGA via LF
VSC58-1RM	5.8 mm camera with 1 m SR probe—VGA via SF
VSC80-2R	8 mm camera with 2 m SR probe—VGA via LF
VSC80-1R	8 mm camera with 1 m SR probe—VGA via LF

## P/N: VS70-3

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: VS70-3  
Commit: 23377  
Language: en-US  
Modified: 2015-02-24 14:06  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



The Articulation Combo (Wired), Long Focus kit includes the VS70, a wired handset, and a dedicated 6 mm long-focus camera with two-way articulation on a 1 m semi-rigid cable. Long focus provides an increased viewing distance, and articulation provides greater internal camera control.

SAP description	Articulation Combo (Wired), Long Focus
Kit contents	VS70 + VSA2-1
<b>VS70 main unit general data</b>	
LCD screen	145 mm (5.7"), 135 mm (5.3") viewable
Active matrix	Active matrix, 640 × 480 pixels
Memory type	SD card 4 GB included (32 GB maximum)
Compression format	MPEG4
Still image format	JPEG (640 × 480 pixels)
Video recording format	AVI (640 × 480 pixels)
Video output format	NTSC and PAL, frame rate 30 fps
Multi-language menu	Yes
Receiver frequency	2.4 GHz
Receiver sensitivity	-87 dBm (SNR = 42 dB, $F_{mod} = 15$ )
Data/video	Mini USB 1.1 and AV out
Audio	Earphone plug, 3.5 mm, 4 rings
Speaker	15 mm, 32 Ω, 20 Hz to 20 kHz
Microphone	Boom microphone 6 mm × 5 mm (0.24" × 0.2"), total length 10 cm (3.9"), Wire length 1.2 m (3.9')
Tripod mount	On rear, accepts standard tripod screw
Certifications	FCC, CE
Warranty	2 years, see website for details
<b>VS70 main unit power system</b>	
Battery	3.7 V rechargeable lithium polymer
Battery life	6-8 hours
Power adapter	100-240 V input/5 V DC output
Battery status indication	Progressive with auto power off (APO)

**P/N: VS70-3**

© 2015, FLIR Systems, Inc.  
#VS70-3; r. 23377; en-US

<b>VS70 main unit environmental data</b>	
IP rating	67
Drop test	2 m
Operating temperature	–10 to 60°C (14 to 140°F)
Operating humidity	80% maximum
Storage temperature	–40 to 80°C (–40 to 176°F)
<b>VS70 main unit physical data</b>	
Product weight	1.57 kg (3.46 lb.), including batteries
Product dimensions	241 mm × 178 mm × 70 mm (9.5" × 7" × 2.75")
Material	PC-ABS, rubber hand grip, nylon strap
Color	Gray and black
<b>Camera VSA2-1 (two-way 6 mm articulated camera with 1 m probe)</b>	
Diameter	6 mm
Resolution	VGA (640 × 480 pixels)
Probe length	1 m
Focal length	65 mm to infinity
Field of view	56°
Articulation	Two-way 240 ± 20° manual tip articulation
Integrated handset	Yes
Wireless capabilities	No
Compatible main unit	VS70
Compatible wireless handset	N/A
Compatible detachable cameras	N/A
Warranty	2 years
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED
Operating temperature	–10 to 50°C (14 to 122°F)
Power requirements	N/A
<b>Shipping information</b>	
Packaging type	Brown shipping box over hard case
Packaging contents	VS70 main unit, VSA2-1 (two-way 6 mm articulated camera with 1 m probe), VSA-60 (6 mm camera accessories: mirror, anti-snag tip, magnet), patch cable, 4 GB SD card, USB/video out cables, power adapters, vehicle charger, headset, neck strap, cleaning kit, VS-HC (VS70 hard case with camera storage), and user manual (printed English and translated on CD)
Packaging weight	7.5 kg
Packaging dimensions (H × W × L)	53 cm × 43.5 cm × 22 cm
Carton weight	16 kg
Carton dimensions (H × W × L)	55 cm × 46.5 cm × 46 cm
Carton quantity	2
EAN-13	0793950400746
UPC-12	793950400746
Country of origin	TW
Tariff code	9013809000





## FLIR VS70: Wired Articulation Camera Videoscope Combo

### P/N: VS70-3

© 2015, FLIR Systems, Inc.

#VS70-3; r. 23377; en-US

Technical support	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>
Documentation	
Manual Languages (on CD and web)	Czech, Danish, German, Greece, English (US), Spanish (Spain), Finnish, French (France), Hungarian, Italian, Japanese, Korean, Bokmal Norwegian (Norway), Dutch Flemish (Netherlands), Polish, Portuguese (Portugal), Russian, Swedish, Chinese, Chinese (Taiwan)
Suggested cameras and accessories	
VST	Wireless handset
VS-2PC	2 m patch cable
VSA2-1-W	Wireless two-way 6 mm articulated camera with 1 m probe
VSC65-17S	17" stainless steel rigid probe
Compatible cameras full list	
VSA2-2M-W	Wireless two-way 6 mm articulated camera with 2 m probe via SF
VSA2-2-W	Wireless two-way 6 mm articulated camera with 2 m probe
VSA2-1M-W	Wireless two-way 6 mm articulated camera with 1 m probe via SF
VSA2-2	Two-way 6 mm articulated camera with 2 m probe
VSA2-2M	Two-way 6 mm articulated camera with 2 m probe via SF
VSA2-1	Two-way 6 mm articulated camera with 1 m probe
VSA2-1M	Two-way 6 mm articulated camera with 1 m probe via SF
VSC2-58-1FM	Two-channel Camera, 5.8 mm diameter 1 m probe
VSC58-30M	5.8 mm camera with 30 m FG probe—QVGA via SF
VSC58-20M	5.8 mm camera with 20 m FG probe—QVGA via SF
VSS-30	30 m plumbing spool
VSS-20	20 m plumbing spool
VSC28	28 mm camera head for spool
VSC25	25 mm camera head for spool
VS-BR25	Centering brush for VS70 camera probes
VS-BR28	Centering brush for VS70 camera probes
VS-RB	Replacement centering brush
VSC65-12S	12" stainless steel rigid probe
VSC41-2RM	4.1 mm camera with 2 m SR probe—QVGA via SF
VSC39-1FM	3.9 mm camera with 1 m flex probe—QVGA via SF
VSC58-2R	5.8 mm camera with 2 m SR probe—VGA via LF
VSC58-2RM	5.8 mm camera with 2 m SR probe—VGA via SF
VSC58-1R	5.8 mm camera with 1 m SR probe—VGA via LF
VSC58-1RM	5.8 mm camera with 1 m SR probe—VGA via SF
VSC80-2R	8 mm camera with 2 m SR probe—VGA via LF
VSC80-1R	8 mm camera with 1 m SR probe—VGA via LF

## P/N: VS70-3-W

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: VS70-3-W  
Commit: 23377  
Language: en-US  
Modified: 2015-02-24 14:06  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



The Wireless Articulation Combo kit includes the VS70, a wireless handset, and a dedicated 6 mm long-focus camera with two-way articulation on a 1 m semi-rigid cable. The kit provides an increased viewing distance and greater internal camera control.

SAP description	Wireless Articulation Combo
Kit contents	VS70 + VSA2-1-W
<b>VS70 main unit general data</b>	
LCD screen	145 mm (5.7"), 135 mm (5.3") viewable
Active matrix	Active matrix, 640 × 480 pixels
Memory type	SD card 4 GB included (32 GB maximum)
Compression format	MPEG4
Still image format	JPEG (640 × 480 pixels)
Video recording format	AVI (640 × 480 pixels)
Video output format	NTSC and PAL, frame rate 30 fps
Multi-language menu	Yes
Receiver frequency	2.4 GHz
Receiver sensitivity	-87 dBm (SNR = 42 dB, $F_{mod} = 15$ )
Data/video	Mini USB 1.1 and AV out
Audio	Earphone plug, 3.5 mm, 4 rings
Speaker	15 mm, 32 Ω, 20Hz to 20 kHz
Microphone	Boom microphone 6 mm × 5 mm (0.24" × 0.2"), total length 10 cm (3.9"), wire length 1.2 m (3.9')
Tripod mount	On rear, accepts standard tripod screw
Certifications	FCC, CE
Warranty	2 years, see website for details
<b>VS70 main unit power system</b>	
Battery	3.7 V rechargeable lithium polymer
Battery life	6–8 hours
Power adapter	100–240 V input/5 V DC output
Battery status indication	Progressive with auto power off (APO)
<b>VS70 main unit environmental data</b>	
IP rating	67
Drop test	2 m

**P/N: VS70-3-W**

© 2015, FLIR Systems, Inc.  
#VS70-3-W; r. 23377; en-US

<b>VS70 main unit environmental data</b>	
Operating temperature	–10 to 60°C (14 to 140°F)
Operating humidity	80% maximum
Storage temperature	–40 to 80°C (–40 to 176°F)
<b>VS70 main unit physical data</b>	
Product weight	1.57 kg (3.46 lb.), including batteries
Product dimensions	241 mm × 178 mm × 70 mm (9.5" × 7" × 2.75")
Material	PC-ABS, rubber hand grip, nylon strap
Color	Gray and black
<b>Camera VSA2-1-W (wireless two-way 6 mm articulated camera with 1 m probe)</b>	
Diameter	6 mm
Resolution	VGA (640 × 480 pixels)
Probe length	1 m
Focal length	65 mm to infinity
Field of view	56°
Articulation	Two-way 240 ± 20° manual tip articulation
Integrated handset	Yes
Wireless capabilities	Yes, 2.4 GHz to main unit
Compatible main unit	VS70
Compatible wireless handset	N/A
Compatible detachable cameras	N/A
Warranty	2 years
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED
Operating temperature	–10°C to 50°C (14 to 122°F)
Power requirements	N/A
<b>VSA2 power system</b>	
Power requirements	Integrated rechargeable battery
Run time	2 hours continuous use
Auto power off	No
Power adapter	100–240 V input/5 V DC output
<b>Shipping information</b>	
Packaging type	Brown shipping box over hard case
Packaging contents	VS70 main unit, VSA2-1-W (wireless two-way 6 mm articulated camera with 1 m probe), VSA-60 (6 mm camera accessories: mirror, anti-snap tip, magnet), patch cable, 4 GB SD card, USB/video out cables, power adapters, vehicle charger, headset, neck strap, cleaning kit, VS-HC (VS70 hard case with camera storage), and user manual (printed English and translated on CD)
Packaging weight	7.5 kg
Packaging dimensions (H × W × L)	53 cm × 43.5 cm × 22 cm
Carton weight	16 kg
Carton dimensions (H × W × L)	55 cm × 46.5 cm × 46 cm
Carton quantity	2
EAN-13	0793950400753



## FLIR VS70: Wireless Articulation Camera Videoscope Combo

### P/N: VS70-3-W

© 2015, FLIR Systems, Inc.  
#VS70-3-W; r. 23377; en-US

Shipping information	
UPC-12	793950400753
Country of origin	TW
Tariff code	9013809000
Technical support	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>
Documentation	
Manual languages (on CD and web)	Czech, Danish, German, Greece, English (US), Spanish (Spain), Finnish, French (France), Hungarian, Italian, Japanese, Korean, Bokmal Norwegian (Norway), Dutch Flemish (Netherlands), Polish, Portuguese (Portugal), Russian, Swedish, Chinese, Chinese (Taiwan)
Suggested cameras and accessories	
VST	Wireless handset
VS-2PC	2 m patch cable
VSA2-1-W	Wireless two-way 6 mm articulated camera with 1 m probe
VSC65-17S	17" stainless steel rigid probe
Compatible cameras full list	
VSA2-2M-W	Wireless two-way 6 mm articulated camera with 2 m probe via SF
VSA2-2-W	Wireless two-way 6 mm articulated camera with 2 m probe
VSA2-1M-W	Wireless two-way 6 mm articulated camera with 1 m probe via SF
VSA2-2	Two-way 6 mm articulated camera with 2 m probe
VSA2-2M	Two-way 6 mm articulated camera with 2 m probe via SF
VSA2-1	Two-way 6 mm articulated camera with 1 m probe
VSA2-1M	Two-way 6 mm articulated camera with 1 m probe via SF
VSC2-58-1FM	Two-channel camera, 5.8 mm diameter 1 m probe
VSC58-30M	5.8 mm camera with 30 m FG probe—QVGA via SF
VSC58-20M	5.8 mm camera with 20 m FG probe—QVGA via SF
VSS-30	30 m plumbing spool
VSS-20	20 m plumbing spool
VSC28	28 mm camera head for spool
VSC25	25 mm camera head for spool
VS-BR25	Centering brush for VS70 camera probes
VS-BR28	Centering brush for VS70 camera probes
VS-RB	Replacement centering brush
VSC65-12S	12" stainless steel rigid probe
VSC41-2RM	4.1 mm camera with 2 m SR probe—QVGA via SF
VSC39-1FM	3.9 mm camera with 1 m flex probe—QVGA via SF
VSC58-2R	5.8 mm camera with 2 m SR probe—VGA via LF
VSC58-2RM	5.8 mm camera with 2 m SR probe—VGA via SF
VSC58-1R	5.8 mm camera with 1 m SR probe—VGA via LF



## FLIR VS70: Wireless Articulation Camera Videoscope Combo

### P/N: VS70-3-W

© 2015, FLIR Systems, Inc.  
#VS70-3-W; r. 23377; en-US

Compatible cameras full list	
VSC58-1RM	5.8 mm camera with 1 m SR probe—VGA via SF
VSC80-2R	8 mm camera with 2 m SR probe—VGA via LF
VSC80-1R	8 mm camera with 1 m SR probe—VGA via LF

## P/N: VS70-KIT

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: VS70-KIT  
Commit: 23377  
Language: en-US  
Modified: 2015-02-24 14:06  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



The Starter Bundle includes the VS70, a wired handset, a dedicated 6 mm long-locus camera with two-way articulation on a 1 m semi-rigid cable, and an 8mm long focus camera on a 1 meter semi-rigid cable. The bundle provides long-distance views and close-up inspection.

SAP description	Starter Bundle: Main Unit, Two-way Articulation, General Purpose Camera
Kit contents	VS70 + VSA2-1 + VSC80-1R
<b>VS70 main unit general data</b>	
LCD screen	145 mm (5.7"), 135 mm (5.3") viewable
Active matrix	Active matrix, 640 × 480 pixels
Memory type	SD card 4 GB included (32 GB maximum)
Compression format	MPEG4
Still image format	JPEG (640 × 480 pixels)
Video Recording format	AVI (640 × 480 pixels)
Video output format	NTSC and PAL, frame rate 30 fps
Multi-language menu	Yes
Receiver frequency	2.4 GHz
Receiver sensitivity	-87 dBm (SNR = 42 dB, $F_{mod} = 15$ )
Data/video	Mini USB 1.1 and AV out
Audio	Earphone plug, 3.5 mm, 4 rings
Speaker	15 mm, 32 Ω, 20 Hz to 20 kHz
Microphone	Boom microphone 6 mm × 5 mm (0.24" × 0.2"), total length 10 cm (3.9"), wire length 1.2 m (3.9')
Tripod mount	On rear, accepts standard tripod screw
Certifications	FCC, CE
Warranty	2 years, see website for details
<b>VS70 main unit power system</b>	
Battery	3.7 V rechargeable lithium polymer
Battery life	6–8 hours
Power adapter	100–240 V input/5 V DC output
Battery status indication	Progressive with auto power off (APO)

**P/N: VS70-KIT**

© 2015, FLIR Systems, Inc.  
#VS70-KIT; r. 23377; en-US

<b>VS70 main unit environmental data</b>	
IP rating	67
Drop test	2 m
Operating temperature	–10 to 60°C (14 to 140°F)
Operating humidity	80% maximum
Storage temperature	–40 to 80°C (–40 to 176°F)
<b>VS70 main unit physical data</b>	
Product weight	1.57 kg (3.46 lb.), including batteries
Product dimensions	241 mm × 178 mm × 70 mm (9.5" × 7" × 2.75")
Material	PC-ABS, rubber hand grip, nylon strap
Color	Gray and black
<b>Camera VSA2-1 (two-way 6 mm articulated camera with 1 m probe)</b>	
Diameter	6 mm
Resolution	VGA (640 × 480 pixels)
Probe length	1 m
Focal length	65 mm to infinity
Field of view	56°
Articulation	Two-way 240 ± 20° manual tip articulation
Integrated handset	Yes
Wireless capabilities	No
Compatible main unit	VS70
Compatible wireless handset	N/A
Compatible detachable cameras	N/A
Warranty	2 years
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED
Operating temperature	–10°C to 50°C (14 to 122°F)
Power requirements	N/A
<b>Camera VSC80-1R (8 mm camera with 1 m SR probe—VGA via LF)</b>	
Diameter	8 mm
Resolution	VGA (640 × 480 pixels)
Probe length	1 m
Focal length	65 mm to infinity
Field of view	56°
Integrated handset	N/A
Wireless capabilities	N/A
Compatible main unit	VS70
Compatible wireless handset	VST
Compatible detachable cameras	N/A
Warranty	2 years
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED
Operating temperature	–10 to 50°C (14 to 122°F)



## FLIR VS70: Starter Bundle w Articulation and extra camera Videoscope Kit

### P/N: VS70-KIT

© 2015, FLIR Systems, Inc.  
#VS70-KIT; r. 23377; en-US

Shipping information	
Packaging type	Brown shipping box over hard case
Packaging contents	VS70 main unit, VSA2-1 (two-way 6 mm articulated camera with 1 m probe), VSA-60 (6 mm camera accessories: mirror, anti-snag tip, magnet), patch cable, 4 GB SD card, USB/video out cables, power adapters, vehicle charger, headset, neck strap, cleaning kit, VS-HC (VS70 hard case with camera storage), and user manual (printed English and translated on CD)
Packaging weight	7.5 kg
Packaging dimensions (H x W x L)	53 cm x 43.5 cm x 22 cm
Carton weight	16 kg
Carton dimensions (H x W x L)	55 cm x 46.5 cm x 46 cm
Carton quantity	2
EAN-13	0793950400760
UPC-12	793950400760
Country of origin	TW
Tariff code	9013809000
Technical support	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>
Documentation	
Manual languages (on CD and web)	Czech, Danish, German, Greece, English (US), Spanish (Spain), Finnish, French (France), Hungarian, Italian, Japanese, Korean, Bokmal Norwegian (Norway), Dutch Flemish (Netherlands), Polish, Portuguese (Portugal), Russian, Swedish, Chinese, Chinese (Taiwan)
Suggested cameras and accessories	
VST	Wireless handset
VS-2PC	2 m patch cable
VSA2-1-W	Wireless two-way 6 mm articulated camera with 1 m probe
VSC65-17S	17" stainless steel rigid probe
Compatible cameras full list	
VSA2-2M-W	Wireless two-way 6 mm articulated camera with 2 m probe via SF
VSA2-2-W	Wireless two-way 6 mm articulated camera with 2 m probe
VSA2-1M-W	Wireless two-way 6 mm articulated camera with 1 m probe via SF
VSA2-2	Two-way 6 mm articulated camera with 2 m probe
VSA2-2M	Two-way 6 mm articulated camera with 2 m probe via SF
VSA2-1	Two-way 6 mm articulated camera with 1 m probe
VSA2-1M	Two-way 6 mm articulated camera with 1 m probe via SF
VSC2-58-1FM	Two-channel camera, 5.8 mm diameter 1 m probe
VSC58-30M	5.8 mm camera with 30 m FG probe—QVGA via SF
VSC58-20M	5.8 mm camera with 20 m FG probe—QVGA via SF





**P/N: VS70-KIT**

© 2015, FLIR Systems, Inc.  
#VS70-KIT; r. 23377; en-US

Compatible cameras full list	
VSS-30	30 m plumbing spool
VSS-20	20 m plumbing spool
VSC28	28 mm camera head for spool
VSC25	25 mm camera head for spool
VS-BR25	Centering brush for VS70 camera probes
VS-BR28	Centering brush for VS70 camera probes
VS-RB	Replacement centering brush
VSC65-12S	12" stainless steel rigid probe
VSC41-2RM	4.1 mm camera with 2 m SR probe—QVGA via SF
VSC39-1FM	3.9 mm camera with 1 m flex probe—QVGA via SF
VSC58-2R	5.8 mm camera with 2 m SR probe—VGA via LF
VSC58-2RM	5.8 mm camera with 2 m SR probe—VGA via SF
VSC58-1R	5.8 mm camera with 1 m SR probe—VGA via LF
VSC58-1RM	5.8 mm camera with 1 m SR probe—VGA via SF
VSC80-2R	8 mm camera with 2 m SR probe—VGA via LF
VSC80-1R	8 mm camera with 1 m SR probe—VGA via LF

## P/N: VS70-KIT-W

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: VS70-KIT-W  
Commit: 23377  
Language: en-US  
Modified: 2015-02-24 14:06  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Wireless Bundle includes the VS70 and a wireless handset with a dedicated 6mm long focus, 2-way articulation camera on a 1-meter semi-rigid cable, and an 8mm long focus camera on a 1-meter cable. Allows long-distance views and close-up inspections.

SAP description	Starter Bundle: Main Unit, Two-way Articulation, General Purpose Camera
Kit contents	VS70 + VSA2-1-W + VSC80-1R
<b>VS70 main unit general data</b>	
LCD screen	145 mm (5.7"), 135 mm (5.3") viewable
Active matrix	Active matrix, 640 × 480 pixels
Memory type	SD card 4 GB included (32 GB maximum)
Compression format	MPEG4
Still image format	JPEG (640 × 480 pixels)
Video recording format	AVI (640 × 480 pixels)
Video output format:	NTSC and PAL, frame rate 30 fps
Multi-language menu	Yes
Receiver frequency	2.4 GHz
Receiver sensitivity	-87 dBm (SNR = 42 dB, $F_{mod} = 15$ )
Data/video	Mini USB 1.1 and AV out
Audio	Earphone plug, 3.5 mm, 4 rings
Speaker	15 mm, 32 Ω, 20 Hz to 20 kHz
Microphone	Boom microphone 6 mm × 5 mm (0.24" × 0.2"), total length 10 cm (3.9"), wire length 1.2 m (3.9')
Tripod mount	On rear, accepts standard tripod screw
Certifications	FCC, CE
Warranty	2 years, see website for details
<b>VS70 main unit power system</b>	
Battery	3.7 V rechargeable lithium polymer
Battery life	6–8 hours
Power adapter	100–240 V input/5 V DC output
Battery status indication	Progressive with auto power off (APO)
<b>VS70 main unit environmental data</b>	
IP rating	67
Drop test	2 m



## FLIR VS70: Wireless Bundle w wireless Articulation and extra camera Videoscope Kit

### P/N: VS70-KIT-W

© 2015, FLIR Systems, Inc.  
#VS70-KIT-W; r. 23377; en-US

VS70 main unit environmental data	
Operating temperature	–10 to 60°C (14 to 140°F)
Operating humidity	80% maximum
Storage temperature	–40 to 80°C (–40 to 176°F)

VS70 main unit physical data	
Product weight	1.57 kg (3.46 lb.), including batteries
Product dimensions	241 mm × 178 mm × 70 mm (9.5" × 7" × 2.75")
Material	PC-ABS, rubber hand grip, nylon strap
Color	Gray and black

Camera VSA2-1-W (wireless two-way 6 mm articulated camera with 1 m probe)	
Diameter	6 mm
Resolution	VGA (640 × 480 pixels)
Probe length	1 m
Focal length	65 mm to infinity
Field of view	56°
Articulation	Two-way 240 ± 20° manual tip articulation
Integrated handset	Yes
Wireless capabilities	Yes, 2.4 GHz to main unit
Compatible main unit	VS70
Compatible wireless handset	N/A
Compatible detachable cameras	N/A
Warranty	2 years
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED
Operating temperature	–10 to 50°C (14 to 122°F)
Power requirements	N/A

VSA2 power system	
Power requirements	Integrated rechargeable battery
Run time	2 hours continuous use
Auto power off	No
Power adapter	100–240 V input/5 V DC output

Camera VSC80-1R (8 mm camera with 1 m SR probe—VGA via LF)	
Diameter	8 mm
Resolution	VGA (640 × 480 pixels)
Probe length	1 m
Focal length	65 mm to infinity
Field of view	56°
Integrated handset	N/A
Wireless capabilities	N/A
Compatible main unit	VS70
Compatible wireless handset	VST
Compatible detachable cameras	N/A
Warranty	2 years
Imaging sensor	CMOS



## FLIR VS70: Wireless Bundle w wireless Articulation and extra camera Videoscope Kit

### P/N: VS70-KIT-W

© 2015, FLIR Systems, Inc.  
#VS70-KIT-W; r. 23377; en-US

<b>Camera VSC80-1R (8 mm camera with 1 m SR probe—VGA via LF)</b>	
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED
Operating temperature	–10°C to 50°C (14 to 122°F)
<b>Shipping information</b>	
Packaging type	Brown shipping box over hard case
Packaging contents	VS70 main unit, VSA2-1 (two-way 6 mm articulated camera with 1 m probe), VSA-60 (6 mm camera accessories: mirror, anti-snag tip, magnet), patch cable, 4 GB SD card, USB/video out cables, power adapters, vehicle charger, headset, neck strap, cleaning kit, VS-HC (VS70 hard case with camera storage), and user manual (printed English and translated on CD)
Packaging weight	7.5 kg
Packaging dimensions (H × W × L)	53 cm × 43.5 cm × 22 cm
Carton weight	16 kg
Carton dimensions (H × W × L)	55 cm × 46.5 cm × 46 cm
Carton quantity	2
EAN-13	0793950400777
UPC-12	793950400777
Country of origin	TW
Tariff code	9013809000
<b>Technical support</b>	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>
<b>Documentation</b>	
Manual Languages (on CD and web)	Czech, Danish, German, Greece, English (US), Spanish (Spain), Finnish, French (France), Hungarian, Italian, Japanese, Korean, Bokmal Norwegian (Norway), Dutch Flemish (Netherlands), Polish, Portuguese (Portugal), Russian, Swedish, Chinese, Chinese (Taiwan)
<b>Suggested cameras and accessories</b>	
VST	Wireless handset
VS-2PC	2 m patch cable
VSA2-1-W	Wireless two-way 6 mm articulated camera with 1 m probe
VSC65-17S	17" stainless steel rigid probe
<b>Compatible cameras full list</b>	
VSA2-2M-W	Wireless two-way 6 mm articulated camera with 2 m probe via SF
VSA2-2-W	Wireless two-way 6 mm articulated camera with 2 m probe
VSA2-1M-W	Wireless two-way 6 mm articulated camera with 1 m probe via SF
VSA2-2	Two-way 6 mm articulated camera with 2 m probe
VSA2-2M	Two-way 6 mm articulated camera with 2 m probe via SF



## FLIR VS70: Wireless Bundle w wireless Articulation and extra camera Videoscope Kit

### P/N: VS70-KIT-W

© 2015, FLIR Systems, Inc.  
#VS70-KIT-W; r. 23377; en-US

Compatible cameras full list	
VSA2-1	Two-way 6 mm articulated camera with 1 m probe
VSA2-1M	Two-way 6 mm articulated camera with 1 m probe via SF
VSC2-58-1FM	Two-channel camera, 5.8 mm diameter 1 m probe
VSC58-30M	5.8 mm camera with 30 m FG probe—QVGA via SF
VSC58-20M	5.8 mm camera with 20 m FG probe—QVGA via SF
VSS-30	30 m plumbing spool
VSS-20	20 m plumbing spool
VSC28	28 mm camera head for spool
VSC25	25 mm camera head for spool
VS-BR25	Centering brush for VS70 camera probes
VS-BR28	Centering brush for VS70 camera probes
VS-RB	Replacement centering brush
VSC65-12S	12" stainless steel rigid probe
VSC41-2RM	4.1 mm camera with 2 m SR probe—QVGA via SF
VSC39-1FM	3.9 mm camera with 1 m flex probe—QVGA via SF
VSC58-2R	5.8 mm camera with 2 m SR probe—VGA via LF
VSC58-2RM	5.8 mm camera with 2 m SR probe—VGA via SF
VSC58-1R	5.8 mm camera with 1 m SR probe—VGA via LF
VSC58-1RM	5.8 mm camera with 1 m SR probe—VGA via SF
VSC80-2R	8 mm camera with 2 m SR probe—VGA via LF
VSC80-1R	8 mm camera with 1 m SR probe—VGA via LF

A photograph from our company archives



# Software

---

## P/N: T128664ACC

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T128664ACC  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

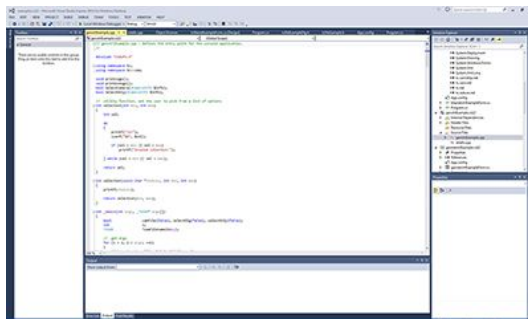
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The FLIR BHP SDK allows users of A6600/A6200sc/A6700sc/A8300sc/SC6x00/SC8x00/RS6700 series cameras to integrate camera control and GigE data streaming into their own applications.

The BHP SDK provides C/C++ functions to control all available camera operations. The SDK is in the form of a Visual Studio project that includes integrated help and many example programs to demonstrate how to use the various functions.

#### Main features:

- Supplies functions for all camera control features.
- Functions for GigE streaming.
- Functions for accessing temperature-calibrated data.
- Designed specifically for Visual Studio 2012 but Visual Studio 2008, 2010, and 2013 are supported.
- C#/ .NET wrappers are included.
- Integrated help.
- A large amount of sample code is provided.

### Download

Download your copy of FLIR BHP SDK here (password required):

<http://support.flir.com/bhpsdk>

### Shipping information

Packaging, type	Cardboard box
List of contents	FLIR BHP SDK download card, incl. password.
Packaging, weight	0.068 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558010501
UPC-12	845188011154
Country of origin	Sweden

### Compatible with the following products



## P/N: DSW-10000

### Copyright

© 2015, FLIR Systems, Inc.

All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: DSW-10000

Commit: 24597

Language: en-US

Modified: 2015-04-09 13:38

Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.

27700 SW Parkway Ave.

Wilsonville, OR 97070

USA

Telephone: +1-503-498-3547

### Website

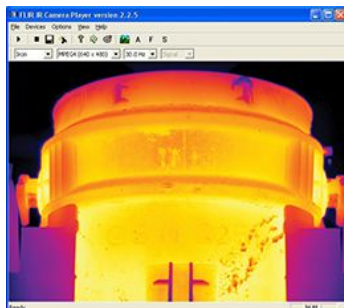
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

FLIR IR Camera Player is a PC-based remote control and viewer that you can use with cameras from FLIR Systems.

You can perform one or more of the following with FLIR IR Camera Player:

- Record a video stream from the camera.
- Save a frame from the video stream as a snapshot image (\*.bmp).
- Autofocus, focus far, and focus near.
- Autoadjust the camera image.
- Freeze the camera image.
- Save a camera image in the camera.
- Change Color palette.
- Add an image description and a text comment to an image.

You connect a camera in one of the following ways:

- Ethernet
- FireWire
- USB

### Download

This software is a freeware. To download, click the following link:

<http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=89>

### Release notes

Version	2.3.3
New features	<p>Main improvements in version 2.3.3:</p> <ul style="list-style-type: none"> <li>• Added latest device drivers (1.9.1.0).</li> <li>• Various bugfixes</li> </ul> <p>Main improvements in version 2.2.7:</p> <ul style="list-style-type: none"> <li>• Added support for FLIR Ax5 series.</li> </ul>

### System requirements

Operating system	<ul style="list-style-type: none"> <li>• Windows XP, 32-bit</li> <li>• Windows Vista, 32-bit/64-bit</li> <li>• Windows 7, 32-bit/64-bit</li> </ul>
------------------	--

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)

**P/N: DSW-10000**

© 2015, FLIR Systems, Inc.  
#DSW-10000; r. 24597; en-US

- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc

**P/N: DSW-10000**

© 2015, FLIR Systems, Inc.  
#DSW-10000; r. 24597; en-US

- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)



---

**P/N: DSW-10000**

© 2015, FLIR Systems, Inc.  
#DSW-10000; r. 24597; en-US

- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)



# FLIR Platinum SDK

## P/N: T128379ACC

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T128379ACC  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.

### General description

The FLIR Platinum SDK allows users of X6500sc-series and X8400sc-series cameras to integrate camera control and GigE data streaming into their own applications. The Platinum SDK provides C/C++ functions to control all available function of the camera. The SDK is in the form of a Visual Studio project which includes integrated help and many example programs to demonstrate how to use the various functions.

### Main features:

- Supplies functions for all camera control features.
- Functions for GigE streaming.
- Functions for accessing temperature calibrated data.
- Designed specifically for Visual Studio 2012 but VS2008, 2010, and 2013 are supported.
- C#/NET wrappers are included.
- Integrated help.
- A large amount of sample code is provided.

### Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"><li>• FLIR Platinum SDK download card.</li></ul>
Packaging, weight	0.135 kg (0.30 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558009765
UPC-12	845188010300
Country of origin	Sweden

### Compatible with the following products

## P/N: T198586

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198586  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description
FLIR Reporter Professional is a powerful software for creating compelling and professional, fully customized, easy-to-interpret maintenance reports.
Professional Report Wizard guides you step-by-step in combining all IR inspection data - infrared and visual images, temperature measurements, and text notes – into a professional, easy-to-interpret maintenance report.
Key features:
<ul style="list-style-type: none"> <li>Flexible report page design and layout for customized reports</li> <li>Use quick insert function to easily create custom report pages</li> <li>Fully integrated with standard Microsoft Word</li> <li>Generates reports in standard MS Office format and PDF-format</li> <li>Powerful temperature analysis</li> <li>Triple Fusion Picture-in-Picture (movable, sizable, scalable)</li> <li>Rapid report manager supporting automatic report generation by drag-and-drop</li> <li>Support for MSX (Multi-Spectral Dynamic Imaging) images</li> <li>Support for sketch images in both IR and visual with on/off toggling</li> <li>Support for same FOV ("Field of View Match")</li> <li>Grid settings</li> <li>Trending functionality</li> <li>Automatic link to Google™ Maps for images with GPS coordinates</li> <li>Automatic summary table for the report</li> <li>Fine tune images and make full temperature analysis directly in Microsoft Word</li> <li>Spell check</li> <li>Create your own formulas including measurement values from images</li> <li>Play radiometric sequences directly in the report</li> <li>Search functionality to quickly finding images for your report</li> <li>Panorama tool for combining several images to a larger image</li> <li>Support for GF series IR images</li> <li>Auto Update function</li> <li>Office 2003 (32-bit), Office 2007 (32-bit) and Office 2010 (32-bit)</li> <li>Windows 7 (32 and 64-bit), Windows Vista (32 and 64-bit)</li> <li>Support for METERLiNK™ data</li> <li>*.docx compatibility</li> </ul>
Download
Download your copy of FLIR Reporter Professional here:
<a href="http://support.flir.com/reporter">http://support.flir.com/reporter</a>

**P/N: T198586**

© 2015, FLIR Systems, Inc.  
#T198586; r. 23306; en-US

Release notes	
Version	9.2
New features	<ul style="list-style-type: none"> <li>— News in 9.2: —</li> <li>Option to hide Zoom Viewer</li> <li>Option to extract Visual image from MSI/Fusion image.</li> <li>Support for the new FLIR Ex and Exx series cameras.</li> <li>Support for multispectral images.</li> <li>Support for auto-oriented images.</li> <li>Various bug fixes.</li> </ul>
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>FLIR Reporter Professional scratchcard</li> </ul>
Packaging, weight	0.135 kg (0.3 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005286 4743254001893 (Estonia plant)
UPC-12	845188005498
Country of origin	Sweden
System requirements	
Operating system	<ul style="list-style-type: none"> <li>Windows XP, 32-bit</li> <li>Windows Vista, 32-bit</li> <li>Windows Vista, 64-bit</li> <li>Windows 7, 32-bit</li> <li>Windows 7, 64-bit</li> </ul>
Software requirements	<ul style="list-style-type: none"> <li>Office 2007 (32-bit)</li> <li>Office 2010 (32-bit)</li> </ul>

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)

**P/N: T198586**

© 2015, FLIR Systems, Inc.  
#T198586; r. 23306; en-US

- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)



**P/N: T198697**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: T198697  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

FLIR ResearchIR Max + HSDR 4 contains all the features of FLIR ResearchIR Max 4, plus support for FLIR High Speed Data Recorder (HSDR) products.

### Main features:

- Pre/post-recording.
- Mathematical processing toolbox.
- Image filtering toolbox.
- Radiometric digital detail enhancement (DDE) improves dramatically the understanding of the thermal image, while maintaining radiometric measurement accuracy.
- View, record and store images at high speed.
- Post-processing of fast thermal events.
- Generate time-temperature plots from live images or recorded sequences.
- Advanced start/stop recording conditions.
- Unlimited number of analysis functions (spot, line, area).
- File organizer.
- Zoom and pan allows a closer look.
- Multiple dockable objects for plots and statistics.
- Export images and results to bitmap, video, Excel, MATLAB or CSV formats
- Local scale gain control on measurement - automatically adjusts the contrast in a specific part of the image.

FLIR ResearchIR Max + HSDR 4 in combination with a FLIR thermal imaging camera is the perfect solution for any R&D or scientific application. It will allow researchers in all fields to make the smallest of temperature differences visible and to thoroughly analyze the thermal process in real-time.

## Download

Download your copy of FLIR ResearchIR Max + HSDR 4 here (hardware security device required to run the software):

<http://support.flir.com/rir4>

## Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• FLIR ResearchIR Max + HSDR 4 download card.</li> <li>• Hardware security device.</li> </ul>
Packaging, weight	0.068 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558007280
UPC-12	845188007652
Country of origin	Sweden

## Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)

**P/N: T198697**

© 2015, FLIR Systems, Inc.  
#T198697; r. 24597; en-US

- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 42901-1001; FLIR A305sc
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens

**P/N: T198697**

© 2015, FLIR Systems, Inc.  
#T198697; r. 24597; en-US

- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: T199014

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T199014  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

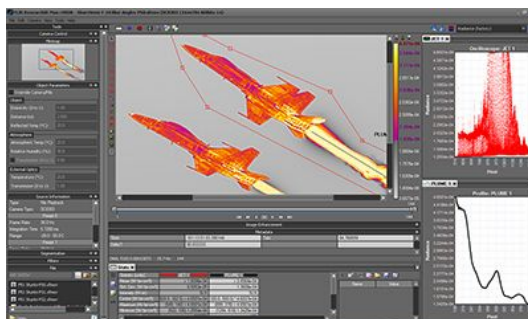
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

FLIR ResearchIR Max + HSDR 4 contains all the features of FLIR ResearchIR Max 4, plus support for FLIR High Speed Data Recorder (HSDR) products.

#### Main features:

- Pre/post-recording.
- Mathematical processing toolbox.
- Image filtering toolbox.
- Radiometric digital detail enhancement (DDE) improves dramatically the understanding of the thermal image, while maintaining radiometric measurement accuracy.
- View, record and store images at high speed.
- Post-processing of fast thermal events.
- Generate time-temperature plots from live images or recorded sequences.
- Advanced start/stop recording conditions.
- Unlimited number of analysis functions (spot, line, area).
- File organizer.
- Zoom and pan allows a closer look.
- Multiple dockable objects for plots and statistics.
- Export images and results to bitmap, video, Excel, MATLAB or CSV formats
- Local scale gain control on measurement - automatically adjusts the contrast in a specific part of the image.

FLIR ResearchIR Max + HSDR 4 in combination with a FLIR thermal imaging camera is the perfect solution for any R&D or scientific application. It will allow researchers in all fields to make the smallest of temperature differences visible and to thoroughly analyze the thermal process in real-time.

### Download

Download your copy of FLIR ResearchIR Max + HSDR 4 here (evaluation copy only – license key required):

<http://support.flir.com/rir4>

### Shipping information

Packaging, type	Cardboard box
List of contents	FLIR ResearchIR Max + HSDR 4 download card, incl. license key.
Packaging, weight	0.068 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558010464
UPC-12	845188011116
Country of origin	Sweden

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)

**P/N: T199014**

© 2015, FLIR Systems, Inc.  
#T199014; r. 24597; en-US

- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 42901-1001; FLIR A305sc
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°

**P/N: T199014**

© 2015, FLIR Systems, Inc.  
#T199014; r. 24597; en-US

- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: T199044

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T199044  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

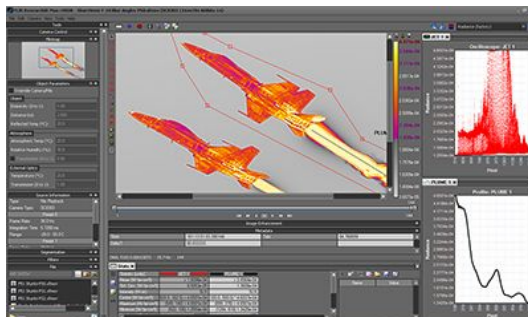
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

FLIR ResearchIR Max + HSDR 4 contains all the features of FLIR ResearchIR Max 4, plus support for FLIR High Speed Data Recorder (HSDR) products.

#### Main features:

- Pre/post-recording.
- Mathematical processing toolbox.
- Image filtering toolbox.
- Radiometric digital detail enhancement (DDE) improves dramatically the understanding of the thermal image, while maintaining radiometric measurement accuracy.
- View, record and store images at high speed.
- Post-processing of fast thermal events.
- Generate time-temperature plots from live images or recorded sequences.
- Advanced start/stop recording conditions.
- Unlimited number of analysis functions (spot, line, area).
- File organizer.
- Zoom and pan allows a closer look.
- Multiple dockable objects for plots and statistics.
- Export images and results to bitmap, video, Excel, MATLAB or CSV formats
- Local scale gain control on measurement - automatically adjusts the contrast in a specific part of the image.

FLIR ResearchIR Max + HSDR 4 in combination with a FLIR thermal imaging camera is the perfect solution for any R&D or scientific application. It will allow researchers in all fields to make the smallest of temperature differences visible and to thoroughly analyze the thermal process in real-time.

### Download

Download your copy of FLIR ResearchIR Max + HSDR 4 here (evaluation copy only – license key required):

<http://support.flir.com/rir4>

### Shipping information

Packaging, type	Cardboard box
List of contents	FLIR ResearchIR Max + HSDR 4 download card, incl. license key.
Packaging, weight	0.068 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558010495
UPC-12	845188011147
Country of origin	Sweden

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)

**P/N: T199044**

© 2015, FLIR Systems, Inc.  
#T199044; r. 24597; en-US

- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 42901-1001; FLIR A305sc
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°



---

**P/N: T199044**

© 2015, FLIR Systems, Inc.  
#T199044; r. 24597; en-US

- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: T198696

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198696  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

FLIR ResearchIR Max 4.0 is aimed at R&D and science professionals who use thermal imaging cameras with a cooled or uncooled detectors. FLIR ResearchIR Max makes the most of a thermal imaging camera, and allows high-speed recording and advanced thermal pattern analysis. FLIR ResearchIR Max is the perfect tool for industrial R&D.

#### Main features:

- Pre/post-recording.
- Mathematical processing toolbox.
- Image filtering toolbox.
- Radiometric digital detail enhancement (DDE) improves dramatically the understanding of the thermal image, while maintaining radiometric measurement accuracy.
- View, record and store images at high speed.
- Post-processing of fast thermal events.
- Generate time-temperature plots from live images or recorded sequences.
- Advanced start/stop recording conditions.
- Unlimited number of analysis functions (spot, line, area).
- File organizer.
- Zoom and pan allows a closer look.
- Multiple dockable objects for plots and statistics.
- Export images and results to bitmap, video, Excel, MATLAB or CSV formats
- Local scale gain control on measurement - automatically adjusts the contrast in a specific part of the image.

FLIR ResearchIR Max 4 in combination with a FLIR thermal imaging camera is the perfect solution for any R&D or scientific application. It will allow researchers in all fields to make the smallest of temperature differences visible and to thoroughly analyze the thermal process in real-time.

### Download

Download your copy of FLIR ResearchIR Max 4 here (hardware security device required to run the software):

<http://support.flir.com/rir4>

### Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• FLIR ResearchIR Max 4 download card.</li> <li>• Hardware security device.</li> </ul>
Packaging, weight	0.066 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558007266
UPC-12	845188007638
Country of origin	Sweden

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)

**P/N: T198696**

© 2015, FLIR Systems, Inc.  
#T198696; r. 24597; en-US

- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 42901-1001; FLIR A305sc
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens

**P/N: T198696**

© 2015, FLIR Systems, Inc.  
#T198696; r. 24597; en-US

- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: T199013

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T199013  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

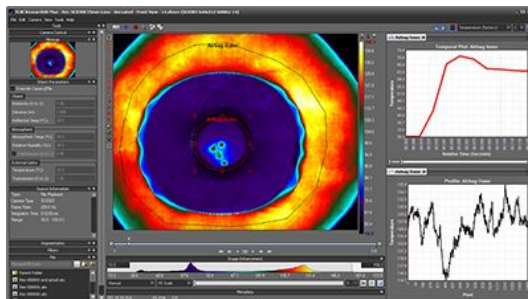
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

FLIR ResearchIR Max 4.0 is aimed at R&D and science professionals who use thermal imaging cameras with a cooled or uncooled detectors. FLIR ResearchIR Max makes the most of a thermal imaging camera, and allows high-speed recording and advanced thermal pattern analysis. FLIR ResearchIR Max is the perfect tool for industrial R&D.

#### Main features:

- Pre/post-recording.
- Mathematical processing toolbox.
- Image filtering toolbox.
- Radiometric digital detail enhancement (DDE) improves dramatically the understanding of the thermal image, while maintaining radiometric measurement accuracy.
- View, record and store images at high speed.
- Post-processing of fast thermal events.
- Generate time-temperature plots from live images or recorded sequences.
- Advanced start/stop recording conditions.
- Unlimited number of analysis functions (spot, line, area).
- File organizer.
- Zoom and pan allows a closer look.
- Multiple dockable objects for plots and statistics.
- Export images and results to bitmap, video, Excel, MATLAB or CSV formats
- Local scale gain control on measurement - automatically adjusts the contrast in a specific part of the image.

FLIR ResearchIR Max 4 in combination with a FLIR thermal imaging camera is the perfect solution for any R&D or scientific application. It will allow researchers in all fields to make the smallest of temperature differences visible and to thoroughly analyze the thermal process in real-time.

### Download

Download your copy of FLIR ResearchIR Max 4 here (evaluation copy only – license key required):

<http://support.flir.com/rir4>

### Shipping information

Packaging, type	Cardboard box
List of contents	FLIR ResearchIR Max 4 download card, incl. license key.
Packaging, weight	0.066 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558010457
UPC-12	845188011109
Country of origin	Sweden

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)

**P/N: T199013**

© 2015, FLIR Systems, Inc.  
#T199013; r. 24597; en-US

- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 42901-1001; FLIR A305sc
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens

**P/N: T199013**

© 2015, FLIR Systems, Inc.  
#T199013; r. 24597; en-US

- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: T199043

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T199043  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

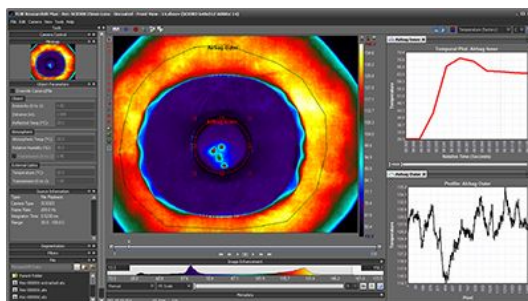
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

FLIR ResearchIR Max 4.0 is aimed at R&D and science professionals who use thermal imaging cameras with a cooled or uncooled detectors. FLIR ResearchIR Max makes the most of a thermal imaging camera, and allows high-speed recording and advanced thermal pattern analysis. FLIR ResearchIR Max is the perfect tool for industrial R&D.

#### Main features:

- Pre/post-recording.
- Mathematical processing toolbox.
- Image filtering toolbox.
- Radiometric digital detail enhancement (DDE) improves dramatically the understanding of the thermal image, while maintaining radiometric measurement accuracy.
- View, record and store images at high speed.
- Post-processing of fast thermal events.
- Generate time-temperature plots from live images or recorded sequences.
- Advanced start/stop recording conditions.
- Unlimited number of analysis functions (spot, line, area).
- File organizer.
- Zoom and pan allows a closer look.
- Multiple dockable objects for plots and statistics.
- Export images and results to bitmap, video, Excel, MATLAB or CSV formats
- Local scale gain control on measurement - automatically adjusts the contrast in a specific part of the image.

FLIR ResearchIR Max 4 in combination with a FLIR thermal imaging camera is the perfect solution for any R&D or scientific application. It will allow researchers in all fields to make the smallest of temperature differences visible and to thoroughly analyze the thermal process in real-time.

### Download

Download your copy of FLIR ResearchIR Max 4 here (evaluation copy only – license key required):

<http://support.flir.com/rir4>

### Shipping information

Packaging, type	Cardboard box
List of contents	FLIR ResearchIR Max 4 download card, incl. license key.
Packaging, weight	0.066 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558010488
UPC-12	845188011130
Country of origin	Sweden

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)



**P/N: T199043**

© 2015, FLIR Systems, Inc.  
#T199043; r. 24597; en-US

- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 42901-1001; FLIR A305sc
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens

**P/N: T199043**

© 2015, FLIR Systems, Inc.  
#T199043; r. 24597; en-US

- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: T198731

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198731  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

FLIR ResearchIR Standard 4.0 is aimed at the R&D benchtop testing environment for users of uncooled cameras. FLIR ResearchIR Standard provides the core analysis tools needed for rapid testing and assessment of thermal issues.

#### Main features:

- View live imagery from the camera
- Record snapshots or movies to disk.
- Post-processing of fast thermal events.
- Generate time-temperature plots from live images or recorded sequences.
- Analysis by region (spot, line, area).
- File organizer.
- Zoom and pan allows a closer look.
- Multiple dockable objects for plots and statistics.
- Export images and results to bitmap, Excel, or CSV formats

FLIR ResearchIR Standard 4 in combination with a FLIR thermal imaging camera is the perfect solution for any benchtop testing application application.

### Shipping information

List of contents	<ul style="list-style-type: none"> <li>• FLIR ResearchIR Standard download card.</li> <li>• Hardware security device.</li> </ul>
Packaging, weight	0.069 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558008638
UPC-12	845188009151
Country of origin	Sweden

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)

**P/N: T198731**

© 2015, FLIR Systems, Inc.  
#T198731; r. 24597; en-US

- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 42901-1001; FLIR A305sc
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40

---

**P/N: T198731**

© 2015, FLIR Systems, Inc.  
#T198731; r. 24597; en-US

- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: T199012

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T199012  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

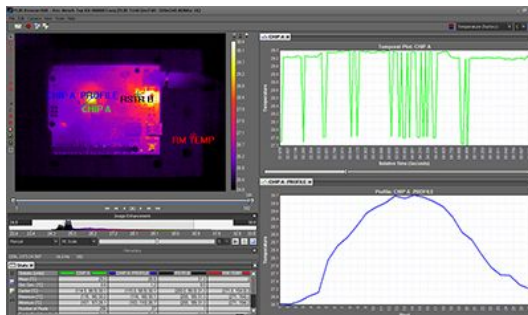
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

FLIR ResearchIR Standard 4.0 is aimed at the R&D benchtop testing environment for users of uncooled cameras. FLIR ResearchIR Standard provides the core analysis tools needed for rapid testing and assessment of thermal issues.

#### Main features:

- View live imagery from the camera
- Record snapshots or movies to disk.
- Post-processing of fast thermal events.
- Generate time-temperature plots from live images or recorded sequences.
- Analysis by region (spot, line, area).
- File organizer.
- Zoom and pan allows a closer look.
- Multiple dockable objects for plots and statistics.
- Export images and results to bitmap, Excel, or CSV formats

FLIR ResearchIR Standard 4 in combination with a FLIR thermal imaging camera is the perfect solution for any benchtop testing application application.

### Download

Download your copy of FLIR ResearchIR 4 here (evaluation copy only – license key required):

<http://support.flir.com/rir4>

### Shipping information

List of contents	FLIR ResearchIR Standard download card, incl. license key.
Packaging, weight	0.069 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558010440
UPC-12	845188011093
Country of origin	Sweden

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)

**P/N: T199012**

© 2015, FLIR Systems, Inc.  
#T199012; r. 24597; en-US

- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 42901-1001; FLIR A305sc
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)



---

**P/N: T199012**

© 2015, FLIR Systems, Inc.  
#T199012; r. 24597; en-US

- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)



## P/N: T199042

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T199042  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

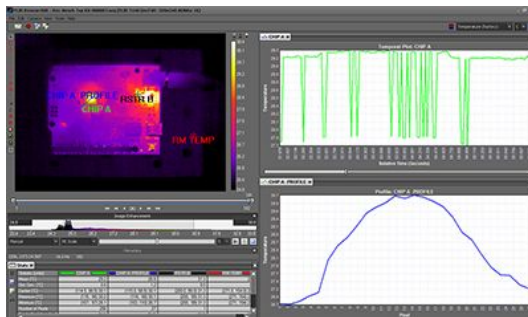
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

FLIR ResearchIR Standard 4.0 is aimed at the R&D benchtop testing environment for users of uncooled cameras. FLIR ResearchIR Standard provides the core analysis tools needed for rapid testing and assessment of thermal issues.

#### Main features:

- View live imagery from the camera
- Record snapshots or movies to disk.
- Post-processing of fast thermal events.
- Generate time-temperature plots from live images or recorded sequences.
- Analysis by region (spot, line, area).
- File organizer.
- Zoom and pan allows a closer look.
- Multiple dockable objects for plots and statistics.
- Export images and results to bitmap, Excel, or CSV formats

FLIR ResearchIR Standard 4 in combination with a FLIR thermal imaging camera is the perfect solution for any benchtop testing application.

### Download

Download your copy of FLIR ResearchIR 4 here (evaluation copy only – license key required):

<http://support.flir.com/rir4>

### Shipping information

List of contents	FLIR ResearchIR Standard download card, incl. license key.
Packaging, weight	0.069 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558010471
UPC-12	845188011123
Country of origin	Sweden

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)

**P/N: T199042**

© 2015, FLIR Systems, Inc.  
#T199042; r. 24597; en-US

- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 42901-1001; FLIR A305sc
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)

---

**P/N: T199042**

© 2015, FLIR Systems, Inc.  
#T199042; r. 24597; en-US

- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

**P/N: 4130235**

**Copyright**

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

**Document identity**

Publ. No.: 4130235  
Commit: 24652  
Language: en-US  
Modified: 2015-04-10 08:49  
Formatted: 2015-05-12

**Corporate Headquarters**

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

**Website**

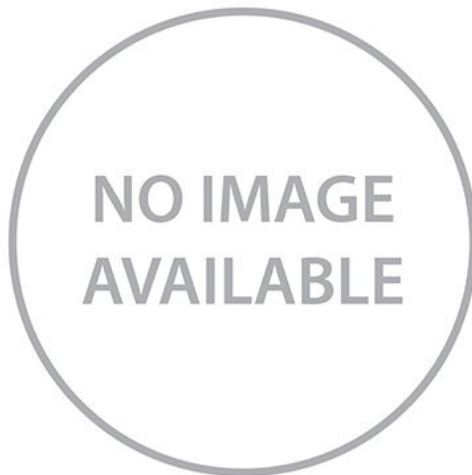
<http://www.flir.com>

**Customer support**

<http://support.flir.com>

**Disclaimer**

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



**General description**

Software to manage and control FLIR Systems thermal imaging cameras for security and safety applications

FLIR Sensors Manager offers powerful and efficient management capabilities for any security installation with FLIR Systems thermal imaging cameras. FLIR Sensors Manager allows to automatically locate FLIR Systems thermal imaging cameras in the network and to easily control them. Just connect the thermal imaging camera to the network, install FLIR Sensors Manager and hit the "discover" button and you will be able to manage and control the camera. Thanks to FLIR Sensors Manager, the management of FLIR Systems thermal imaging cameras over a network will become extremely easy.

FLIR Sensors Manager does not only allow controlling F-, PT- and D-Series thermal imaging cameras. It is also suited for managing thermal imaging cameras with temperature capabilities like the FLIR A310 f and FLIR A310 pt.

FLIR Sensors Manager allows you to get the most out of your thermal imaging camera with temperature measurement capability. It is ideal for monitoring critical infrastructure and for preventing fires.

FLIR Sensors Manager allows to automatically locate FLIR A310 pt and FLIR A310 f cameras in the network. They can be easily controlled and set-up in a distributed multi-camera environment

FLIR Sensors Manager is available in two different versions: Basic (freeware) and Pro. Depending on your exact needs and your security network, you can choose the version that best fits your system's requirements. A free demo version is available and can be downloaded from our website. After registration, the demo version is converted to the basic version.

The Basic version of FLIR Sensors Manager (freeware) allows to:

- Discover sensors in the network
- Command and control of up to four networked sensors: focus, pan/tilt, zoom
- Display network video
- Define presets
- Manage scan lists
- Create panoramas
- Configure user profiles(toolbars, layout, etc)
- Show thermal images on multiple monitors
- Capture images
- Geo Mapping

**P/N: 4130235**

© 2015, FLIR Systems, Inc.  
#4130235; r. 24652; en-US

General description	
The Pro version of FLIR Sensors Manager contains all the features that are incorporated in the Basic version, plus a number of useful modes that will help you make the most out of your security network.	
<p>Video analytics</p> <p>Allows to perform video analytics within FLIR Sensors Manager. It includes:</p> <ul style="list-style-type: none"> <li>- Video Motion Detection: FLIR's pro proprietary algorithm will work on thermal or visible video in the most harsh environments.</li> <li>- Target detection with alarms based on spatial rules like trip wires crossing or areas triggered by enter, exit or both events.</li> <li>- Software based video-tracking of moving objects for control of PTZ sensors.</li> </ul> <p>Radar Cueing and radar tracks display</p> <p>Allows display of real-time position and classification information of radar targets (ID, course, speed, lat/lon, classification, ...) coming from Nexus enabled radars. Allows users to command cameras in advanced radar slave modes (ARPA tracking).</p> <p>Video wall display</p> <p>Allows fully configurable video mosaic layouts, supporting both network and analog frame grabber sources. E-stab Provides a steady image. Can be extremely useful when cameras are installed on high poles where they can be affected by wind or vibration.</p>	
Download	
The demo version is a freeware. To download, click the following link:	
<a href="http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=157">http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=157</a>	
Release notes	
Version	FLIR Sensors Manager - FSM
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009987
UPC-12	845188010522
Country of origin	Sweden
System requirements	
Operating system	<ul style="list-style-type: none"> <li>• Windows XP, 32-bit</li> <li>• Windows Vista, 32-bit</li> <li>• Windows 7, 32-bit</li> <li>• Windows 7, 64-bit</li> </ul>

**Compatible with the following products**

- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL

---

**P/N: 4130235**

© 2015, FLIR Systems, Inc.  
#4130235; r. 24652; en-US

- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL

## P/N: T198584

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198584  
Commit: 25122  
Language: en-US  
Modified: 2015-04-29 09:51  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
FLIR Tools is a software suite specifically designed to provide an easy way to update your camera and create inspection reports.	
Key features:	
<ul style="list-style-type: none"> <li>Report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR).</li> <li>Manual IR/Visual Image Grouping</li> <li>Import images from your camera to your computer.</li> <li>Apply filters when searching for images.</li> <li>Search all text in images and text annotations.</li> <li>Store the five latest search criteria's.</li> <li>Lay out, move, and resize measurement tools on any infrared image.</li> <li>Create PDF imagesheets of any images of your choice.</li> <li>Add headers, footers, and logos to imagesheets.</li> <li>Create PDF reports for images of your choice.</li> <li>Add headers, footers, and logos to reports.</li> <li>Report editor (report page preview and snap to grid).</li> <li>Sort function (by date, groups sorted by path, and groups sorted by date).</li> <li>Browse and purchase infrared cameras, software, and accessories in the webshop.</li> <li>Software localized to 21 languages.</li> <li>Support for MSX (Multi-Spectral Dynamic Imaging ) Images</li> <li>Support for Sketch Images on both IR and Visual with toggling ON/OFF feature.</li> <li>Support for Same FOV ( Field of View Match )</li> <li>Display of Compass Information in Edit and in Report.</li> <li>Display of GPS Information in Edit and in Report.</li> <li>Microsoft Windows 7 (32- and 64-bit) and Windows 8 (32- and 64-bit)</li> <li>Camera update (applies to FLIR Ex, Kxx, Exx and T6xx series only).</li> </ul>	
Download	
This software is a freeware. To download, click the following link:	
<a href="http://support.flir.com/tools">http://support.flir.com/tools</a>	
Release notes	
Version	5.2
New features in version 5.2	<ul style="list-style-type: none"> <li>Support for auto-adjusting a region.</li> <li>Support for zoom.</li> <li>Various bug fixes.</li> </ul>
New features in version 5.1	<ul style="list-style-type: none"> <li>Improved import performance.</li> <li>Added support for video recording settings for FLIR Kxx series.</li> <li>Added support for importing video files from FLIR Kxx series.</li> <li>Added support for FLIR C2 camera.</li> <li>Various bug fixes.</li> </ul>

**P/N: T198584**

© 2015, FLIR Systems, Inc.  
#T198584; r. 25122; en-US

Release notes	
New features in version 5.0	<ul style="list-style-type: none"> <li>Local object parameters for measurement tools.</li> <li>Save a report in-process with the ability to edit at a later time.</li> <li>Pull-down menus for text annotations.</li> <li>Variable playback speed for recordings.</li> <li>Show or hide min./max./avg. temperature, and hot/cold markers, for areas and lines.</li> <li>Smoother display for low-resolution images.</li> <li>UltraMax image enhancement.</li> <li>Dropping support for Windows XP.</li> <li>Various bug fixes.</li> </ul>
New features in version 4.1	<ul style="list-style-type: none"> <li>Previous/next in Edit mode.</li> <li>Clone in the Library.</li> <li>Extract visual photo from a multispectral image.</li> <li>Import *.mp4, *.seq, and *.csq files from the camera.</li> <li>Playback/edit *.seq and *.csq files.</li> <li>Scale enhancement for the FLIR GF3xx series.</li> <li>Auto resize of thumbnails during importing for the FLIR T6xx series.</li> <li>Grouping/ungrouping now added.</li> <li>Various bug fixes.</li> </ul>
New features in version 4.0	<ul style="list-style-type: none"> <li>Support for the new FLIR Ex and Exx series cameras.</li> <li>Interactive quick start guide when connecting a FLIR camera.</li> <li>Improved library view.</li> <li>Support for multispectral images.</li> <li>Support for auto-oriented images.</li> <li>Various bug fixes.</li> </ul>
New features in version 3.1	<ul style="list-style-type: none"> <li>Support for FLIR K series cameras.</li> <li>Interactive quick start guide when connecting a FLIR K series camera.</li> <li>Live image streaming from FLIR K series cameras.</li> <li>PC-side configuration of FLIR K series cameras.</li> <li>New report templates for DC images only added.</li> <li>Various bug fixes.</li> </ul>
New features in version 3.0	<ul style="list-style-type: none"> <li>Add folder to library.</li> <li>Support for isotherms and color alarms</li> <li>Image description for both IR and DC.</li> <li>Export functionality (*.avi, *.csv).</li> <li>Microsoft Windows 8 (32- and 64-bit)</li> <li>New web installer</li> <li>Various bug fixes.</li> </ul>
New features in version 2.2	<ul style="list-style-type: none"> <li>Camera tab: <ul style="list-style-type: none"> <li>Logging feature in Camera Tab</li> <li>Recording and playback of SEQ files.</li> </ul> </li> <li>Various bug fixes.</li> </ul>
New features in version 2.1	<ul style="list-style-type: none"> <li>New Text Comment Template Tab: <ul style="list-style-type: none"> <li>Create, Edit and Transfer templates to and from any FLIR Camera.</li> <li>Import and Export of Templates.</li> </ul> </li> <li>Support for MSX (Multi-Spectral Dynamic Imaging ) Images</li> <li>Support for Sketch Images on both IR and Visual with toggling ON/OFF feature.</li> <li>Support for Same FOV ( Field of View Match )</li> <li>Display of Compass Information in Edit and in Report.</li> <li>Display of GPS Information in Edit and in Report. <ul style="list-style-type: none"> <li>Direct Link to Google Maps for GPS Tagged images from Report.</li> </ul> </li> <li>Support for 3x5 and 6x5 A-series cameras</li> </ul>



**P/N: T198584**

© 2015, FLIR Systems, Inc.  
#T198584; r. 25122; en-US

Release notes	
New features in version 2.0	<ul style="list-style-type: none"> <li>Camera tab: <ul style="list-style-type: none"> <li>Camera connection with FLIR UVC cameras.</li> <li>Measurement data analysis.</li> <li>Plotting.</li> <li>Snapshot saving with text annotation and plot.</li> </ul> </li> <li>Performance improvement for large reports: can now create reports and imagesheets of up to 200 pages.</li> <li>Various bug fixes.</li> </ul>
New features in version 1.3	<ul style="list-style-type: none"> <li>Import from ix series cameras.</li> <li>Add and remove a form from a group.</li> <li>Text comments are now saved in the infrared image.</li> <li>The indexing engine can create groups from IR, DC, and text annotations when indexing the paths in the watch folder.</li> <li>Arrow tool in the report toolbar.</li> <li>Reorder pages.</li> <li>Text annotations can now be edited in the report.</li> <li>New report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR).</li> <li>New sample images.</li> </ul>
New features in version 1.2 SP1	<ul style="list-style-type: none"> <li>Various bug fixes.</li> </ul>
New features in version 1.2	<ul style="list-style-type: none"> <li>Search function: <ul style="list-style-type: none"> <li>Store the five latest search criterias.</li> <li>Search in all texts in images and text annotations.</li> </ul> </li> <li>Sort function: <ul style="list-style-type: none"> <li>By date.</li> <li>Groups sorted by by path.</li> <li>Groups sorted by date.</li> </ul> </li> <li>Report editor: <ul style="list-style-type: none"> <li>Report page preview.</li> <li>Snap to grid.</li> <li>Various bug fixes.</li> </ul> </li> </ul>
New features in version 1.1 SP1	<ul style="list-style-type: none"> <li>Extension to the camera update functionality.</li> <li>Various bug fixes</li> </ul>
New features in version 1.1	<ul style="list-style-type: none"> <li>Software localized to 21 languages.</li> <li>Camera update. (Exx, T6xx)</li> <li>Option to rotate an infrared image in the infrared editor.</li> </ul>

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Digital download, or</li> <li>CD-ROM</li> </ul>
Packaging, weight	0.106 kg (0.23 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005279
UPC-12	845188005481
Country of origin	Sweden

System requirements	
Operating system	<ul style="list-style-type: none"> <li>Windows XP, 32-bit</li> <li>Windows Vista, 32-bit</li> <li>Windows 7, 32-bit</li> <li>Windows 7, 64-bit</li> <li>Windows 8, 32-bit</li> <li>Windows 8, 64-bit</li> </ul>

**P/N: T198584**

© 2015, FLIR Systems, Inc.  
#T198584; r. 25122; en-US

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm

**P/N: T198584**

© 2015, FLIR Systems, Inc.  
#T198584; r. 25122; en-US

- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

**P/N: T198584**

© 2015, FLIR Systems, Inc.  
#T198584; r. 25122; en-US

- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72001-0101; FLIR C2

## P/N: APP-10004

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: APP-10004  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
FLIR Tools is a software specifically designed to provide an easy way to analyze infrared images and create inspection reports.	
Using FLIR Tools, you can do one or more of the following:	
<ul style="list-style-type: none"> <li>• Import images from your camera to your computer.</li> <li>• Search for images.</li> <li>• Lay out, move, and resize measurement tools on any infrared image.</li> <li>• Create PDF reports for images of your choice.</li> <li>• Add headers, footers, and logos to reports.</li> <li>• Create new report templates.</li> </ul>	
FLIR Tools lets you take control of the following features on selected cameras:	
<ul style="list-style-type: none"> <li>• Connect an infrared camera to FLIR Tools and display its live image stream.</li> <li>• When the camera is connected, lay out measurement tools, change parameters, create plots, etc.</li> </ul>	
Download	
The application can be downloaded from Mac App Store, see the link below.	
<a href="https://itunes.apple.com/app/flir-tools/id579348845?mt=12">https://itunes.apple.com/app/flir-tools/id579348845?mt=12</a>	
Release notes	
Version	2.1
New features	<p>Main improvements in version 2.1:</p> <ul style="list-style-type: none"> <li>• Support for thermal blending.</li> <li>• Support for groups and multispectral images.</li> <li>• Improved stability.</li> </ul> <p>Main improvements in version 2.0:</p> <ul style="list-style-type: none"> <li>• Connect an infrared camera to FLIR Tools and display its live image stream.</li> <li>• When the camera is connected, lay out measurement tools, change parameters, create plots, etc.</li> <li>• Create new report templates.</li> <li>• Various bug fixes.</li> </ul>
System requirements	
Operating system	<ul style="list-style-type: none"> <li>• OS X 10.7 or later,</li> </ul>
Hardware requirements	<ul style="list-style-type: none"> <li>• MacOS</li> </ul>

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)

**P/N: APP-10004**

© 2015, FLIR Systems, Inc.  
#APP-10004; r. 24597; en-US

- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: APP-10002

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: APP-10002  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

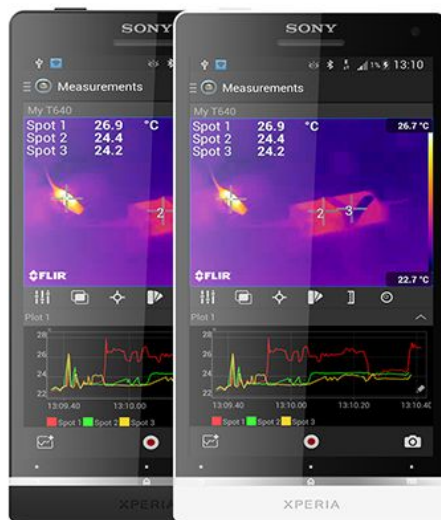
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

FLIR Tools Mobile is an intuitive Android app for analyzing, managing, and distributing infrared images.

#### Key features:

- Remote control
- MSX
- Images with sketch on DC and IR
- Images with field of view follow
- Editable text comments
- Emissivity table
- Import images from your Wi-Fi-enabled camera.
- Connect and stream infrared images from the camera.
- Connect and stream measurement data from FLIR Test & Measurement meters
- Lay out and move measurement tools on the image.
- Read out temperature measurements.
- Create and configure temporal plots based on results of measurement tools on the infrared image.
- Log measurement data and export it as a \*.csv file.
- Save a measurement scenario as a data snapshot.
- Zoom in on images.
- On the Android device, remotely take snapshots when a camera is connected.
- On the camera, take snapshots that will automatically be saved on the Android device.
- Delete images on the Android device.
- Display an image's GPS coordinates on Google Maps.
- Create and e-mail reports.
- Save images in the Android device photo library.
- Send images to FTP sites and other file-sharing services (Dropbox, Box.net, etc.).
- Display image information, e.g., object parameters, text comments, and file details.
- Play back voice comments.
- Change the level and span.
- Change general settings in the app.
- Change the palette.

### Download

The application can be downloaded from Android Market or Amazon Marketplace, see the link below.

<https://market.android.com/details?id=com.flir.viewer>

**P/N: APP-10002**

© 2015, FLIR Systems, Inc.  
#APP-10002; r. 24597; en-US

Release notes	
Version	3.4.0
New features	<p>Main improvements in version 3.4.0:</p> <ul style="list-style-type: none"> <li>• Support for *.csq files.</li> <li>• Various bug fixes.</li> </ul> <p>Main improvements in version 3.2.0:</p> <ul style="list-style-type: none"> <li>• Receive data logs from FLIR DM93.</li> <li>• Save or export data logs in new *.csv format.</li> <li>• Various bug fixes.</li> </ul> <p>Main improvements in version 3.1.0:</p> <ul style="list-style-type: none"> <li>• Added variable level of MSX alpha</li> <li>• Added Fusion Blending mode for images with possibility to adjust level</li> <li>• Stability fixes</li> <li>• Improved memory management</li> <li>• Modified internal handling of measurement results and displaying them.</li> </ul>
System requirements	
Operating system	<ul style="list-style-type: none"> <li>• Android 2.3 and later</li> </ul>

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)



**P/N: APP-10002**

© 2015, FLIR Systems, Inc.  
#APP-10002; r. 24597; en-US

- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: APP-10003

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: APP-10003  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

FLIR Tools Mobile lets professional thermographers use an iPad, iPhone, or iPod touch to see and capture live, streaming infrared video and stills from select FLIR cameras.

With FLIR Tools Mobile the camera can be stationed in one area and operated wirelessly from another – highly useful for IR inspections of energized equipment or performing IR surveys in hard-to-reach locations and harsh working environments. Streaming video and remote access also gives decision makers and others on your team a valuable opportunity to observe and collaborate in the thermal imaging process.

Using FLIR Tools Mobile, you can do one or more of the following:

- Import images from your infrared camera
- Lay out and move measurement tools on the image
- Read out temperature measurements
- Zoom in on images
- On the iPhone/iPad, remotely take snapshots when a camera is connected
- On the camera, take snapshots that will automatically be saved in the iPhone/iPad
- Delete any images on the iPhone/iPad
- Display an image's GPS coordinates on Google Maps
- Create and e-mail imagesheets
- Create and e-mail reports
- Print imagesheets and reports to any AirPrint-enabled printer
- Save images to iPhone/iPad photo library
- Send images to FTP sites and other file sharing services (Dropbox, Box.net, etc.)
- Display image information, such as object parameters, text comments, file information, etc.
- Play-back voice comments
- Change level and span
- Change general settings in the app
- Change palette

**P/N: APP-10003**

© 2015, FLIR Systems, Inc.  
#APP-10003; r. 24597; en-US

General description	
FLIR Tools Mobile lets you take control of the following features on selected cameras:	
<ul style="list-style-type: none"> <li>• Remote control of your FLIR camera.</li> <li>• Support for MSX (Multi-Spectral Dynamic Imaging) images.</li> <li>• Support for sketch images in both IR and visual with on/off toggling.</li> <li>• Support for same FOV ("Field of View Match").</li> <li>• Editable text comments.</li> <li>• Auto and manual focus</li> <li>• Level and span</li> <li>• Color palettes</li> <li>• Temperature measurement analytics</li> <li>• Spot</li> <li>• Area box</li> <li>• Circle</li> <li>• Line</li> <li>• Parameter settings</li> <li>• Emissivity</li> <li>• Reflected temperature</li> <li>• Relative humidity</li> <li>• Atmospheric temperature</li> <li>• IR and visible light image blending</li> <li>• Picture-in-picture</li> <li>• Thermal fusion</li> <li>• Image storage</li> <li>• MPEG 4 video</li> <li>• Radiometric JPEG stills</li> </ul>	
Download	
The application can be downloaded from App Store, see the link below.	
<a href="http://itunes.apple.com/app/flir-tools/id511247887?mt=8">http://itunes.apple.com/app/flir-tools/id511247887?mt=8</a>	
Release notes	
Version	1.5.0
New features	<p>Main improvements in version 1.5.0:</p> <ul style="list-style-type: none"> <li>• Updated for iOS7.</li> <li>• Improved Library.</li> </ul> <p>Main improvements in version 1.3.2:</p> <ul style="list-style-type: none"> <li>• Added remote viewer mode for T4xx and Exx series.</li> <li>• Improved support for anonymous FTP server.</li> <li>• Improved image import from photo gallery.</li> </ul> <p>Main improvements in version 1.3:</p> <ul style="list-style-type: none"> <li>• Support for fusion images.</li> <li>• Marking fusion images with the stacked icon in the library browser.</li> <li>• Switching image modes while editing fusion images.</li> <li>• Switch between fusion IR/DC and grouped images during preview.</li> <li>• Support for landscape and portrait images.</li> <li>• Image parameters can be modified only in edit mode.</li> <li>• Support for FLIR Exx-series cameras.</li> </ul>
System requirements	
Operating system	<ul style="list-style-type: none"> <li>• iOS 4.0 or later</li> </ul>
Hardware requirements	<ul style="list-style-type: none"> <li>• iPhone</li> <li>• iPad</li> <li>• iPod</li> </ul>

**Compatible with the following products**

- N/A

**P/N: T198583**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: T198583  
Commit: 25121  
Language: en-US  
Modified: 2015-04-29 09:50  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

Compared to FLIR Tools, FLIR Tools+ has the following features:

- Radiometric Panorama incl. MSX
- Radiometric IR Video Recording
- Advanced Reporting

FLIR Tools/Tools+ is a software suite specifically designed to provide an easy way to update your camera and create inspection reports.

FLIR Tools+ main features:

- Manual IR/Visual Image Grouping
- Radiometric Panorama incl. MSX
- Radiometric IR Video Recording
- Advanced Reporting - Microsoft Office 2007 (32bit), and 2010 (32bit) support
- Report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR).
- Import images from your camera to your computer.
- Apply filters when searching for images.
- Search all text in images and text annotations.
- Store the five latest search criteria's.
- Lay out, move, and resize measurement tools on any infrared image.
- Create PDF imagesheets of any images of your choice.
- Add headers, footers, and logos to imagesheets.
- Create PDF reports for images of your choice.
- Add headers, footers, and logos to reports.
- Report editor (report page preview and snap to grid).
- Sort function (by date, groups sorted by path, and groups sorted by date).
- Browse and purchase infrared cameras, software, and accessories in the webshop.
- Software localized to 21 languages.
- Support for MSX (Multi-Spectral Dynamic Imaging ) Images
- Support for Sketch Images on both IR and Visual with toggling ON/OFF feature.
- Support for Same FOV ( Field of View Match )
- Display of Compass Information in Edit and in Report.
- Display of GPS Information in Edit and in Report.
- Microsoft Windows 7 (32- and 64-bit) and Windows 8 (32- and 64-bit)
- Camera update (applies to FLIR Ex, Kxx, Exx and T6xx series only).

## Download

Download a 30-day evaluation version here:

<http://support.flir.com/toolsplus>

## Release notes

Version	5.2
New features in version 5.2	<ul style="list-style-type: none"> <li>• Support for auto-adjusting a region.</li> <li>• Support for zoom.</li> <li>• Express Microsoft Word reporting (*.docx).</li> <li>• Various bug fixes.</li> </ul>

**P/N: T198583**

© 2015, FLIR Systems, Inc.  
#T198583; r. 25121; en-US

Release notes	
New features in version 5.1	<ul style="list-style-type: none"> <li>Improved import performance.</li> <li>Added support for video recording settings for FLIR Kxx series.</li> <li>Added support for importing video files from FLIR Kxx series.</li> <li>Added support for FLIR C2 camera.</li> <li>Various bug fixes.</li> </ul>
New features in version 5.0	<ul style="list-style-type: none"> <li>Local object parameters for measurement tools.</li> <li>Save a report in-process with the ability to edit at a later time.</li> <li>Pull-down menus for text annotations.</li> <li>Variable playback speed for recordings.</li> <li>Show or hide min./max./avg. temperature, and hot/cold markers, for areas and lines.</li> <li>Smoother display for low-resolution images.</li> <li>UltraMax image enhancement.</li> <li>Dropping support for Windows XP.</li> <li>Various bug fixes.</li> </ul>
New features in version 4.1	<ul style="list-style-type: none"> <li>Previous/next in Edit mode.</li> <li>Clone in the Library.</li> <li>Extract visual photo from a multispectral image.</li> <li>Import *.mp4, *.seq, and *.csq files from the camera.</li> <li>Playback/edit *.seq and *.csq files.</li> <li>Scale enhancement for the FLIR GF3xx series.</li> <li>Auto resize of thumbnails during importing for the FLIR T6xx series.</li> <li>Grouping/ungrouping now added.</li> <li>Various bug fixes.</li> </ul>
New features in version 4.0	<ul style="list-style-type: none"> <li>Support for the new FLIR Ex and Exx series cameras.</li> <li>Interactive quick start guide when connecting a FLIR camera.</li> <li>Improved library view.</li> <li>Support for multispectral images.</li> <li>Support for auto-oriented images.</li> <li>Various bug fixes.</li> </ul>
New features in version 3.1	<ul style="list-style-type: none"> <li>Support for FLIR K series cameras.</li> <li>Interactive quick start guide when connecting a FLIR K series camera.</li> <li>Live image streaming from FLIR K series cameras.</li> <li>PC-side configuration of FLIR K series cameras.</li> <li>New report templates for DC images only added.</li> <li>Various bug fixes.</li> </ul>
New features in version 3.0	<ul style="list-style-type: none"> <li>Add folder to library.</li> <li>Support for isotherms and color alarms</li> <li>Image description for both IR and DC.</li> <li>Export functionality (*.avi, *.csv).</li> <li>Microsoft Windows 8 (32- and 64-bit)</li> <li>New web installer</li> <li>Radiometric panorama with MSX images.</li> <li>Advanced reports.</li> <li>Manual grouping/ungrouping of images.</li> <li>Various bug fixes.</li> </ul>
New features in version 2.2	<ul style="list-style-type: none"> <li>Camera tab: <ul style="list-style-type: none"> <li>Logging feature in Camera Tab</li> <li>Recording and playback of SEQ files.</li> </ul> </li> <li>Various bug fixes.</li> </ul>
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>FLIR Tools+ scratchcard</li> </ul>
Packaging, weight	0.059 kg (0.13 lb.)

**P/N: T198583**

© 2015, FLIR Systems, Inc.  
#T198583; r. 25121; en-US

Shipping information	
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	73325585378 4743254001442 (Estonia plant)
UPC-12	845188005580
Country of origin	Sweden
System requirements	
Operating system	<ul style="list-style-type: none"> <li>Windows XP, 32-bit</li> <li>Windows Vista, 32-bit</li> <li>Windows 7, 32-bit</li> <li>Windows 7, 64-bit</li> <li>Windows 8, 32-bit</li> <li>Windows 8, 64-bit</li> </ul>
Software requirements	<ul style="list-style-type: none"> <li>Office 2007, 32-bit</li> <li>Office 2010, 32-bit</li> <li>Office 2013, 32-bit</li> </ul>

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)

**P/N: T198583**

© 2015, FLIR Systems, Inc.  
#T198583; r. 25121; en-US

- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens

**P/N: T198583**

© 2015, FLIR Systems, Inc.  
#T198583; r. 25121; en-US

- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 63901-0101; FLIR E4
- 63905-0501; FLIR E5
- 63902-0202; FLIR E6
- 63903-0303; FLIR E8



**P/N: T198585**

**Copyright**

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

**Document identity**

Publ. No.: T198585  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

**Corporate Headquarters**

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

**Website**

<http://www.flir.com>

**Customer support**

<http://support.flir.com>

**Disclaimer**

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



**General description**

FLIR VideoReport makes reports including videos easy. You can create and edit your video clips taken with the FLIR GF series cameras. Build your movie with a few simple drag-and-drops. Delete bad shots and include only the best scenes.

FLIR VideoReport is a software package specifically designed to provide an easy way to edit non-radiometric \*.mp4 and \*.avi video clips, taken with FLIR GF series cameras.

**Key features:**

- Create a longer video clip from several shorter ones, using a storyboard.
- Rearrange the order of shorter video clips on a storyboard before you create a longer video clip.
- Trim a video clip and make the portions that you don't want to display invisible.
- Save any frame from a video clip as an image.
- Add a title screen with custom text.
- Add explanatory text to any video clip.
- Play video clips at several different speeds.
- Read out measurement values, stored as metadata from, an \*.mp4 video clip.
- Add digital photos to a video clip.
- Add IR images to a video clip.
- Add GPS information from the camera to a video clip.
- Review file properties and information about the camera type, lens, and serial number.
- Split a video clip into two parts.
- Add markers (circle or arrow) as overlay graphics to any video clip.
- Auto Update function

**Download**

This software is a freeware. To download, click the following link:

<http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=90>

**P/N: T198585**

© 2015, FLIR Systems, Inc.  
#T198585; r. 24597; en-US

Release notes	
Version	1.1 SP4
New features	<ul style="list-style-type: none"> <li>— News in SP4: —</li> <li>New codec implemented.</li> <li>Various bug fixes.</li> <li>— News in SP3: —</li> <li>New user interface design</li> <li>New logo functionality</li> <li>Various bug fixes</li> </ul>
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Digital download, or</li> <li>CD-ROM</li> </ul>
Packaging, weight	0.106 kg (0.23 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005385
UPC-12	845188005597
Country of origin	Sweden
System requirements	
Operating system	<ul style="list-style-type: none"> <li>Microsoft Windows XP with Service Pack 3 (SP3), 32-bit</li> <li>Microsoft Windows Vista with Service Pack 1 (SP1), 32-bit and 64-bit</li> <li>Microsoft Windows Vista with Service Pack 2 (SP2), 32-bit and 64-bit</li> <li>Microsoft Windows 7, 32-bit and 64-bit</li> </ul>
Software note	Run Windows® Update before you install FLIR VideoReport
Hardware requirements	<ul style="list-style-type: none"> <li>Personal computer with a 1 GHz 32-bit (x86) processor</li> <li>1 GB of RAM (minimum)</li> <li>40 GB hard disk, with at least 15 GB available hard disk space</li> <li>DVD-ROM drive</li> <li>Support for DirectX® 9 graphics with: <ul style="list-style-type: none"> <li>- WDDM driver</li> <li>- 128 MB of graphics memory (minimum)</li> <li>- Pixel shader 2.0 in hardware</li> <li>- 32 bits per pixel</li> </ul> </li> <li>Super VGA (1024 × 768) or higher-resolution monitor</li> <li>Internet access</li> <li>Audio output</li> <li>Keyboard and Microsoft® mouse, or a compatible pointing device</li> </ul>
Hardware note	Actual requirements and product functionality may vary based on your system configuration.

**Compatible with the following products**

- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens



---

**P/N: T198585**

© 2015, FLIR Systems, Inc.  
#T198585; r. 24597; en-US

- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

## P/N: T198566

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198566  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

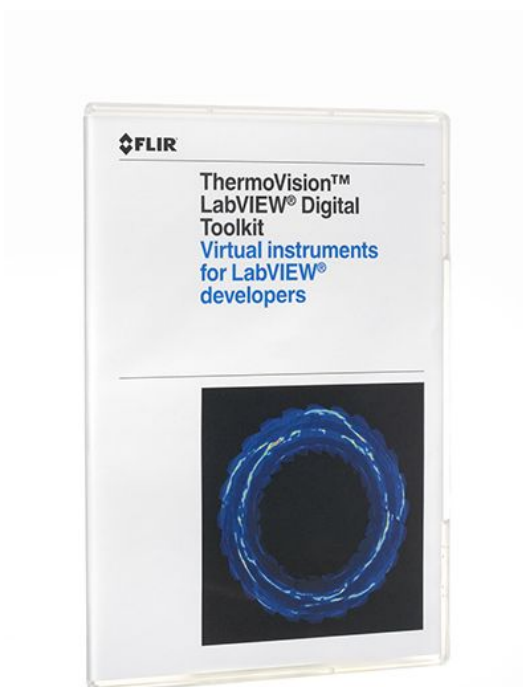
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
<p>The ThermoVision LabVIEW Toolkit is a set of VIs (virtual instruments) for cameras that support alarms, measurement functions, and I/O functionality.</p> <p>Through LabVIEW, you can use these VIs as sub-VIs to manage communications with a FLIR IR camera in digital mode.</p> <p>You can also generate true temperature images from images acquired through LabVIEW, and can use the LabVIEW IR Measurement and Display tools to analyze the temperatures of imaged objects.</p>	
Key features:	
<ul style="list-style-type: none"> <li>Set up communications between LabVIEW VI and a FLIR IR camera</li> <li>Capture and collect images via FireWire or Ethernet interfaces</li> <li>Adjust the camera configuration parameters and focus as you view a live image</li> <li>Control the camera calibration</li> <li>Send any other camera command to the camera</li> <li>Generate a true temperature image from a 16-bit image acquired using the camera's FireWire or Ethernet interfaces</li> <li>Close communications to the IR camera</li> </ul>	
<p>Users with licenses for the previous version can download a free upgrade via the following link:  <a href="http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=63">http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=63</a></p>	
Note: Only supports National Instrument 32-bit Labview	
Release notes	
Version	3.3
New features	<ul style="list-style-type: none"> <li>Windows 7 32- and 64-bit support</li> <li>Support for FLIR A615 and FLIR SC6X5 (including windowing)</li> <li>Support for windowing in FLIR SC660</li> <li>Various bug fixes</li> <li>New example VIs</li> </ul>
Shipping information	
Packaging, type	Cardboard box
Packaging, weight	0.133 kg (0.3 lb.)

**P/N: T198566**

© 2015, FLIR Systems, Inc.  
#T198566; r. 23306; en-US

Shipping information	
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005187
UPC-12	845188005399
Country of origin	Sweden

**Compatible with the following products**

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°



---

**P/N: T198566**

© 2015, FLIR Systems, Inc.  
#T198566; r. 23306; en-US

- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

## P/N: T198567

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198567  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

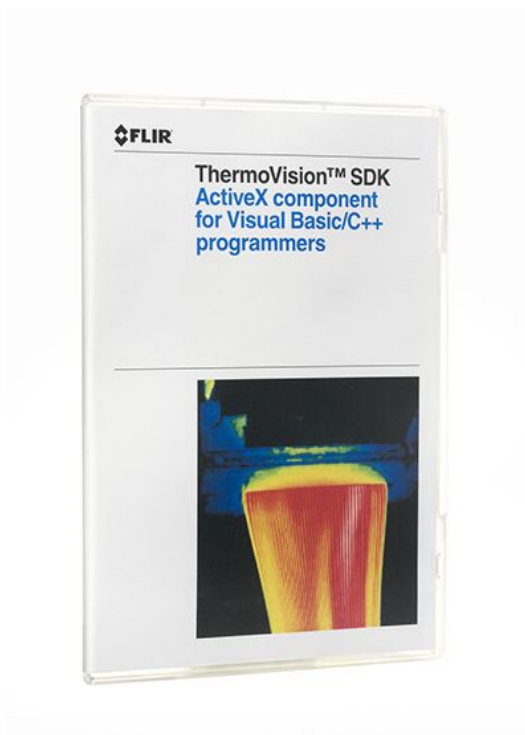
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
ThermoVision™ System Developers Kit	
Key features:	
<ul style="list-style-type: none"> <li>• Supports communication and broadcasting via FireWire™, Ethernet, and USB interfaces.</li> <li>• Gives the user full control of the camera.</li> <li>• Allows the user to set alarm conditions and measurement functions in the camera</li> <li>• Allows the user to define I/O functionality (FLIR A series).</li> <li>• Based on ActiveX technology.</li> <li>• Supports acquisition of images through FireWire™, Ethernet, and USB interfaces.</li> <li>• Reads from and writes to file in FLIR Systems' proprietary file format and writes to files in FLIR Systems' open floating point format (*.fpf).</li> <li>• Converts 16-bit absolute pixels into temperature pixels and several intermediate types of pixels formats, for maximum user flexibility. Applies to all camera models with temperature measurement capabilities.</li> <li>• Allows 16-bit temperature linear outputs from FLIR A series cameras.</li> <li>• Includes method that allows using individual emissivity value correction on any single pixel or condensed measuring value – e.g. average, minimum etc.</li> <li>• Supports conditional recording to file through FireWire™, Ethernet, and USB interfaces.</li> </ul>	
Users with licenses for the previous version can download a free upgrade via the following link: <a href="http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=62">http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=62</a>	
Release notes	
Version	ThermoVision 2.6 SP2
New features	<ul style="list-style-type: none"> <li>• — News in SP2:</li> <li>• Support for FLIR GF3XX series</li> <li>• Support for windowing in FLIR A615 and FLIR SC6x5</li> <li>• Support for windowing in FLIR SC6x0</li> <li>• Various bug fixes</li> </ul>
Shipping information	
Packaging, type	Cardboard box
Packaging, weight	0.132 kg (0.3 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)

**P/N: T198567**

© 2015, FLIR Systems, Inc.  
#T198567; r. 24597; en-US

Shipping information	
EAN-13	7332558005293
UPC-12	845188005504
Country of origin	Sweden

**Compatible with the following products**

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens





---

**P/N: T198567**

© 2015, FLIR Systems, Inc.  
#T198567; r. 24597; en-US

- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

A photograph from our company archives



# Accessories for FLIR ix series

---

## P/N: T910711

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T910711  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Combined power supply & battery charger.	
Power system	
AC operation	100–240 VAC, 50/60 Hz, output 5.0 VDC, 1.2 A
Power	6 W
Physical data	
Size (L × W × H)	69.2 × 43.3 × 29.8 mm (2.7 × 1.7 × 1.2 in.)
Cable length	1.8 m (5.9 ft.)
Shipping information	
List of contents	<ul style="list-style-type: none"><li>Power supply/Battery charger</li><li>EU, UK, US and Australian plugs</li></ul>
EAN-13	7332558001332 4743254001749 (Estonia plant)
UPC-12	845188002602
Country of origin	Estonia

### Compatible with the following products

- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: T197619

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197619  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Hard transport case for FLIR ix and Extech ix	
Physical data	
Weight	1.69 kg (3.73 lb.)
Size (L x W x H)	390 x 330 x 120 mm (15.4 x 13.0 x 4.7 in.)
Color	Black
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558001370 4743254001121 (Estonia plant)
UPC-12	845188000226
Country of origin	Estonia

### Compatible with the following products

- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: T911093

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T911093  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Tool belt for FLIR camera pouches.	
Physical data	
Weight	0.117 kg (0.26 lb.)
Length	1.44 m (4.7 ft.)
Color	Black
Shipping information	
Packaging, type	Cardboard box
List of contents	• Tool belt
Packaging, weight	0.318 kg (0.7 lb.)
Packaging, size	243 × 165 × 82 mm (9.6 × 6.5 × 3.2 in.)
EAN-13	7332558003442 4743254000384 (Estonia plant)
UPC-12	845188003210
Country of origin	Estonia

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)

**P/N: T911093**

© 2015, FLIR Systems, Inc.  
#T911093; r. 23306; en-US

- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 63901-0101; FLIR E4
- 63905-0501; FLIR E5
- 63902-0202; FLIR E6
- 63903-0303; FLIR E8

## P/N: T198529

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198529  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Pouch, including shoulder strap, for FLIR Ex and ix series.	
Physical data	
Size (L x W x H)	270.0 x 145.0 x 115.0 mm (10.6 x 5.7 x 4.5 in.)
Color	Black
Shipping information	
List of contents	<ul style="list-style-type: none"><li>• Pouch</li><li>• Shoulder strap</li></ul>
Packaging, weight	0.530 kg
Packaging, size	303 x 206 x 128 mm
EAN-13	7332558004906 4743254001039 (Estonia plant)
UPC-12	845188004880
Country of origin	Estonia

### Compatible with the following products

- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 63901-0101; FLIR E4
- 63905-0501; FLIR E5
- 63902-0202; FLIR E6
- 63903-0303; FLIR E8



## P/N: T198482

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198482  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This cable is used to power the infrared camera from the 12 V socket in a car.	
Power system	
Voltage	Input: 12/24 V Output: 5 V
Physical data	
Cable length	1 m (3.3 ft.)
Color	Black
Shipping information	
Packaging, weight	0.090 kg
Packaging, size	170 × 75 × 60 mm
EAN-13	7332558004562 4743254000827 (Estonia plant)
UPC-12	845188004545
Country of origin	Estonia

### Compatible with the following products

- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: 19250-100

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 19250-100  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This device is a viewport which consist of a crystal "glass" window, mounted in an aluminum frame. The glass is specially formulated to allow transmission of infrared light to allow use of infrared thermal sensing equipment without opening the enclosure. This device is intended for installation in doors or walls of electrical enclosures without compromising the integrity of the enclosure.	
Power system	
Voltage	Any range
Environmental data	
Environment	Indoor/outdoor type 4/12
Operating temperature range	Maximum: 260°C (500°F)
Storage temperature range	Optics, maximum: 1357°C (2474°F)
Physical data	
Size (L x W x H)	25.5 x 73 x 86 mm (1.0 x 2.87 x 3.36 in.)
Viewing aperture diameter	45 mm (1.77 in.)
Material	Optics: CaF <sub>2</sub> (Calcium Fluoride Crystal) Body: Anodized aluminum Hardware: steel
Comments to physical data	Required hole diameter, nominal: 60.3 mm (2.375 in.) Greenlee Punch: 76BB Maximum pullout strength: 658 kg (1450 lb.)
Lens	
Waveband	Broadband IR: short-, mid-, and longwave
Visible light spectrum	Yes
Certifications	
Certification	UL, IP67, NEMA Type 4/12, CSA
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>IR window</li> <li>Case</li> <li>Mounting instruction</li> <li>Additional safety screw</li> </ul>
Packaging, weight	0.24 kg (0.53 lb.)
Packaging, size	120 x 115 x 40 mm (4.7 x 4.5 x 1.6 in.)
EAN-13	4743254000728
UPC-12	845188002817
Country of origin	Estonia



IR Window 2 in

---

**P/N: 19250-100**

© 2015, FLIR Systems, Inc.  
#19250-100; r. 23306; en-US

**Supplies & accessories:**

## P/N: 19251-100

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 19251-100  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This device is a viewport which consist of a crystal "glass" window, mounted in an aluminum frame. The glass is specially formulated to allow transmission of infrared light to allow use of infrared thermal sensing equipment without opening the enclosure. This device is intended for installation in doors or walls of electrical enclosures without compromising the integrity of the enclosure.	
Power system	
Voltage	Any range
Environmental data	
Environment	Indoor/outdoor type 4/12
Operating temperature range	Maximum: 260°C (500°F)
Storage temperature range	Optics, maximum: 1357°C (2474°F)
Physical data	
Size (L × W × H)	26.9 × 99 × 107 mm (1.05 × 3.89 × 4.22 in.)
Viewing aperture diameter	69 mm (2.71 in.)
Material	Optics: CaF <sub>2</sub> (Calcium Fluoride Crystal) Body: Anodized aluminum Hardware: steel
Comments to physical data	Required hole diameter, nominal: 88.9 mm (3.5 in.) Greenlee Punch: 739BB Maximum pullout strength: 1656 kg (3650 lb.)
Lens	
Waveband	Broadband IR: short-, mid-, and longwave
Visible light spectrum	Yes
Certifications	
Certification	UL, IP67, NEMA Type 4/12, CSA
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>IR window</li> <li>Case</li> <li>Mounting instruction</li> <li>Additional safety screw</li> </ul>
Packaging, weight	0.39 kg (0.86 lb.)
Packaging, size	130 × 140 × 40 mm (5.12 × 5.51 × 1.58 in.)
EAN-13	4743254000735
UPC-12	845188002824
Country of origin	Estonia



IR Window 3 in.

---

**P/N: 19251-100**

© 2015, FLIR Systems, Inc.  
#19251-100; r. 23306; en-US

**Supplies & accessories:**

## P/N: 19252-100

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 19252-100  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This device is a viewport which consist of a crystal "glass" window, mounted in an aluminum frame. The glass is specially formulated to allow transmission of infrared light to allow use of infrared thermal sensing equipment without opening the enclosure. This device is intended for installation in doors or walls of electrical enclosures without compromising the integrity of the enclosure.	
Power system	
Voltage	Any range
Environmental data	
Environment	Indoor/outdoor type 4/12
Operating temperature range	Maximum: 260°C (500°F)
Storage temperature range	Optics, maximum: 1357°C (2474°F)
Physical data	
Size (L x W x H)	29.3 x 127 x 137 mm (1.15 x 5.01 x 5.37 in.)
Viewing aperture diameter	89 mm (3.50 in.)
Material	Optics: CaF <sub>2</sub> (Calcium Fluoride Crystal) Body: Anodized aluminum Hardware: steel
Comments to physical data	Required hole diameter, nominal: 114.3 mm (4.5 in.) Greenlee Punch: 742BB Maximum pullout strength: 1678 kg (3700 lb.)
Lens	
Waveband	Broadband IR: short-, mid-, and longwave
Visible light spectrum	Yes
Certifications	
Certification	UL, IP67, NEMA Type 4/12, CSA
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>IR window</li> <li>Case</li> <li>Mounting instruction</li> <li>Additional safety screw</li> </ul>
Packaging, weight	0.46 kg (1.01 lb.)
Packaging, size	165 x 175 x 40 mm (6.50 x 6.89 x 1.58 in.)
EAN-13	4743254000742
UPC-12	845188002831
Country of origin	Estonia



IR Window 4 in.

---

**P/N: 19252-100**

© 2015, FLIR Systems, Inc.  
#19252-100; r. 23306; en-US

**Supplies & accessories:**

## P/N: T910737

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T910737  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Micro-SD Card for data storage (e.g. images)	
Data communication interfaces	
Memory card, size	At least 2 GB
Shipping information	
List of contents	<ul style="list-style-type: none"><li>micro-SD</li><li>Adapter to miniSD Card</li><li>Adapter from miniSD Card to SD memory card</li></ul>
EAN-13	7332558003473 4743254001428 (Estonia plant)
UPC-12	845188006440
Country of origin	Sweden

### Compatible with the following products

- 60101-0101; FLIR i3
- 60101-0201; FLIR i5



**P/N: 1910423**

**Copyright**

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

**Document identity**

Publ. No.: 1910423  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

**Corporate Headquarters**

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

**Website**

<http://www.flir.com>

**Customer support**

<http://support.flir.com>

**Disclaimer**

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This cable is used to connect the infrared camera with a computer, using the USB protocol.	
Physical data	
Weight	60 g (2.1 oz.)
Cable length	1.8 m (5.9 ft.)
Connector	Standard USB-A to USB Mini-B
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558003428
UPC-12	845188002176
Country of origin	Sweden

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)

**P/N: 1910423**

© 2015, FLIR Systems, Inc.  
#1910423; r. 23306; en-US

- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40



---

**P/N: 1910423**

© 2015, FLIR Systems, Inc.  
#1910423; r. 23306; en-US

- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72201-0106; FLIR K45
- 72201-0206; FLIR K55

**P/N: T198586**

## Copyright

© 2015, FLIR Systems, Inc.

All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: T198586

Commit: 23306

Language: en-US

Modified: 2015-02-23 15:46

Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.

27700 SW Parkway Ave.

Wilsonville, OR 97070

USA

Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

FLIR Reporter Professional is a powerful software for creating compelling and professional, fully customized, easy-to-interpret maintenance reports.

Professional Report Wizard guides you step-by-step in combining all IR inspection data - infrared and visual images, temperature measurements, and text notes – into a professional, easy-to-interpret maintenance report.

## Key features:

- Flexible report page design and layout for customized reports
- Use quick insert function to easily create custom report pages
- Fully integrated with standard Microsoft Word
- Generates reports in standard MS Office format and PDF-format
- Powerful temperature analysis
- Triple Fusion Picture-in-Picture (movable, sizable, scalable)
- Rapid report manager supporting automatic report generation by drag-and-drop
- Support for MSX (Multi-Spectral Dynamic Imaging) images
- Support for sketch images in both IR and visual with on/off toggling
- Support for same FOV ("Field of View Match")
- Grid settings
- Trending functionality
- Automatic link to Google™ Maps for images with GPS coordinates
- Automatic summary table for the report
- Fine tune images and make full temperature analysis directly in Microsoft Word
- Spell check
- Create your own formulas including measurement values from images
- Play radiometric sequences directly in the report
- Search functionality to quickly finding images for your report
- Panorama tool for combining several images to a larger image
- Support for GF series IR images
- Auto Update function
- Office 2003 (32-bit), Office 2007 (32-bit) and Office 2010 (32-bit)
- Windows 7 (32 and 64-bit), Windows Vista (32 and 64-bit)
- Support for METERLiNK™ data
- \*.docx compatibility

## Download

Download your copy of FLIR Reporter Professional here:

<http://support.flir.com/reporter>

**P/N: T198586**

© 2015, FLIR Systems, Inc.  
#T198586; r. 23306; en-US

Release notes	
Version	9.2
New features	<ul style="list-style-type: none"> <li>— News in 9.2: —</li> <li>Option to hide Zoom Viewer</li> <li>Option to extract Visual image from MSI/Fusion image.</li> <li>Support for the new FLIR Ex and Exx series cameras.</li> <li>Support for multispectral images.</li> <li>Support for auto-oriented images.</li> <li>Various bug fixes.</li> </ul>
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>FLIR Reporter Professional scratchcard</li> </ul>
Packaging, weight	0.135 kg (0.3 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005286 4743254001893 (Estonia plant)
UPC-12	845188005498
Country of origin	Sweden
System requirements	
Operating system	<ul style="list-style-type: none"> <li>Windows XP, 32-bit</li> <li>Windows Vista, 32-bit</li> <li>Windows Vista, 64-bit</li> <li>Windows 7, 32-bit</li> <li>Windows 7, 64-bit</li> </ul>
Software requirements	<ul style="list-style-type: none"> <li>Office 2007 (32-bit)</li> <li>Office 2010 (32-bit)</li> </ul>

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)

**P/N: T198586**

© 2015, FLIR Systems, Inc.  
#T198586; r. 23306; en-US

- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

**P/N: T198583**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: T198583  
Commit: 25121  
Language: en-US  
Modified: 2015-04-29 09:50  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

Compared to FLIR Tools, FLIR Tools+ has the following features:

- Radiometric Panorama incl. MSX
- Radiometric IR Video Recording
- Advanced Reporting

FLIR Tools/Tools+ is a software suite specifically designed to provide an easy way to update your camera and create inspection reports.

FLIR Tools+ main features:

- Manual IR/Visual Image Grouping
- Radiometric Panorama incl. MSX
- Radiometric IR Video Recording
- Advanced Reporting - Microsoft Office 2007 (32bit), and 2010 (32bit) support
- Report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR).
- Import images from your camera to your computer.
- Apply filters when searching for images.
- Search all text in images and text annotations.
- Store the five latest search criteria's.
- Lay out, move, and resize measurement tools on any infrared image.
- Create PDF imagesheets of any images of your choice.
- Add headers, footers, and logos to imagesheets.
- Create PDF reports for images of your choice.
- Add headers, footers, and logos to reports.
- Report editor (report page preview and snap to grid).
- Sort function (by date, groups sorted by path, and groups sorted by date).
- Browse and purchase infrared cameras, software, and accessories in the webshop.
- Software localized to 21 languages.
- Support for MSX (Multi-Spectral Dynamic Imaging ) Images
- Support for Sketch Images on both IR and Visual with toggling ON/OFF feature.
- Support for Same FOV ( Field of View Match )
- Display of Compass Information in Edit and in Report.
- Display of GPS Information in Edit and in Report.
- Microsoft Windows 7 (32- and 64-bit) and Windows 8 (32- and 64-bit)
- Camera update (applies to FLIR Ex, Kxx, Exx and T6xx series only).

## Download

Download a 30-day evaluation version here:

<http://support.flir.com/toolsplus>

## Release notes

Version	5.2
New features in version 5.2	<ul style="list-style-type: none"> <li>• Support for auto-adjusting a region.</li> <li>• Support for zoom.</li> <li>• Express Microsoft Word reporting (*.docx).</li> <li>• Various bug fixes.</li> </ul>

**P/N: T198583**

© 2015, FLIR Systems, Inc.  
#T198583; r. 25121; en-US

Release notes	
New features in version 5.1	<ul style="list-style-type: none"> <li>Improved import performance.</li> <li>Added support for video recording settings for FLIR Kxx series.</li> <li>Added support for importing video files from FLIR Kxx series.</li> <li>Added support for FLIR C2 camera.</li> <li>Various bug fixes.</li> </ul>
New features in version 5.0	<ul style="list-style-type: none"> <li>Local object parameters for measurement tools.</li> <li>Save a report in-process with the ability to edit at a later time.</li> <li>Pull-down menus for text annotations.</li> <li>Variable playback speed for recordings.</li> <li>Show or hide min./max./avg. temperature, and hot/cold markers, for areas and lines.</li> <li>Smoother display for low-resolution images.</li> <li>UltraMax image enhancement.</li> <li>Dropping support for Windows XP.</li> <li>Various bug fixes.</li> </ul>
New features in version 4.1	<ul style="list-style-type: none"> <li>Previous/next in Edit mode.</li> <li>Clone in the Library.</li> <li>Extract visual photo from a multispectral image.</li> <li>Import *.mp4, *.seq, and *.csq files from the camera.</li> <li>Playback/edit *.seq and *.csq files.</li> <li>Scale enhancement for the FLIR GF3xx series.</li> <li>Auto resize of thumbnails during importing for the FLIR T6xx series.</li> <li>Grouping/ungrouping now added.</li> <li>Various bug fixes.</li> </ul>
New features in version 4.0	<ul style="list-style-type: none"> <li>Support for the new FLIR Ex and Exx series cameras.</li> <li>Interactive quick start guide when connecting a FLIR camera.</li> <li>Improved library view.</li> <li>Support for multispectral images.</li> <li>Support for auto-oriented images.</li> <li>Various bug fixes.</li> </ul>
New features in version 3.1	<ul style="list-style-type: none"> <li>Support for FLIR K series cameras.</li> <li>Interactive quick start guide when connecting a FLIR K series camera.</li> <li>Live image streaming from FLIR K series cameras.</li> <li>PC-side configuration of FLIR K series cameras.</li> <li>New report templates for DC images only added.</li> <li>Various bug fixes.</li> </ul>
New features in version 3.0	<ul style="list-style-type: none"> <li>Add folder to library.</li> <li>Support for isotherms and color alarms</li> <li>Image description for both IR and DC.</li> <li>Export functionality (*.avi, *.csv).</li> <li>Microsoft Windows 8 (32- and 64-bit)</li> <li>New web installer</li> <li>Radiometric panorama with MSX images.</li> <li>Advanced reports.</li> <li>Manual grouping/ungrouping of images.</li> <li>Various bug fixes.</li> </ul>
New features in version 2.2	<ul style="list-style-type: none"> <li>Camera tab: <ul style="list-style-type: none"> <li>Logging feature in Camera Tab</li> <li>Recording and playback of SEQ files.</li> </ul> </li> <li>Various bug fixes.</li> </ul>
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>FLIR Tools+ scratchcard</li> </ul>
Packaging, weight	0.059 kg (0.13 lb.)



**P/N: T198583**

© 2015, FLIR Systems, Inc.  
#T198583; r. 25121; en-US

Shipping information	
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	73325585378 4743254001442 (Estonia plant)
UPC-12	845188005580
Country of origin	Sweden
System requirements	
Operating system	<ul style="list-style-type: none"> <li>Windows XP, 32-bit</li> <li>Windows Vista, 32-bit</li> <li>Windows 7, 32-bit</li> <li>Windows 7, 64-bit</li> <li>Windows 8, 32-bit</li> <li>Windows 8, 64-bit</li> </ul>
Software requirements	<ul style="list-style-type: none"> <li>Office 2007, 32-bit</li> <li>Office 2010, 32-bit</li> <li>Office 2013, 32-bit</li> </ul>

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)

**P/N: T198583**

© 2015, FLIR Systems, Inc.  
#T198583; r. 25121; en-US

- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens

**P/N: T198583**

© 2015, FLIR Systems, Inc.  
#T198583; r. 25121; en-US

- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 63901-0101; FLIR E4
- 63905-0501; FLIR E5
- 63902-0202; FLIR E6
- 63903-0303; FLIR E8

**P/N: T199806**

**Copyright**

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

**Document identity**

Publ. No.: T199806  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

**Corporate Headquarters**

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

**Website**

<http://www.flir.com>

**Customer support**

<http://support.flir.com>

**Disclaimer**

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



**General description**

The Extended Warranty Package covers parts and labour for your IR camera, consumables not included.

FLIR Systems warrants its products to be free from defects caused by faulty material or poor workmanship, for a period specified above. **NO PRODUCT IS WARRANTED TO BE MERCHANTABLE OR FIT FOR ANY PARTICULAR USE OR APPLICATION.** The warranty is void if the buyer damages the item due to misuse, abuse, modification, processing, or integration with other items. FLIR Systems' maximum liability under this warranty is limited to the obligation to replace or, at its sole option, to credit Buyer's account up to the purchase price.

**Download**

Contact info can be found at:

<http://support.flir.com>

**Compatible with the following products**

- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 63901-0101; FLIR E4
- 63905-0501; FLIR E5
- 63902-0202; FLIR E6
- 63903-0303; FLIR E8

## P/N: T199833

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T199833  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

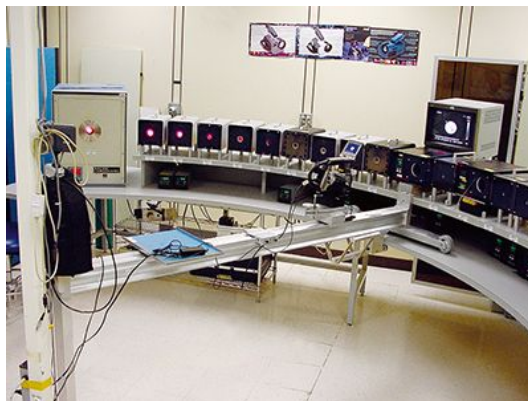
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

General Maintenance package offers a complete 14 points inspection and calibration service (for one lens combination). Shipping cost not included.

#### 14-point inspection program:

- Perform a complete operational check.
- Fusion calibration and laser alignment, when applicable.
- Verify all internal cable and PCB connections.
- Clean the viewfinder and check the optics.
- Upgrade the internal camera software to the latest revisions.
- Perform minor repairs.
- Verify and/or re-equalize as needed each temperature range for image uniformity.
- Verify standard lens calibration (optional: other or specially engineered lenses).
- Verify ambient temperature compensation as needed.
- Recalibration to ensure factory specifications are met.
- Calibrate temperature ranges up to +1500°C, when applicable.
- Perform a quality-approved acceptance test procedure.
- Provide a calibration label with the next due date.
- Provide a calibration certificate (optional: extended calibration certificate with measured values).

### Download

Contact info can be found at:

<http://support.flir.com>

### Compatible with the following products

- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display
- 63901-0101; FLIR E4
- 63905-0501; FLIR E5
- 63902-0202; FLIR E6
- 63903-0303; FLIR E8

## P/N: ITC-FEE-0120

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-FEE-0120  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Certification DIN EN ISO 9712 TT Category 1	
Course information	
Available languages	DACH only
Course details	
Duration	1 day

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)

**P/N: ITC-FEE-0120**

© 2015, FLIR Systems, Inc.

#ITC-FEE-0120; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-CER-6101

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-6101  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
DIN EN ISO 9712 TT Category 1 Certification course, excl. Certification, 1 pers.	
Course information	
Available languages	DACH only
Course details	
Duration	5 days

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)



---

**P/N: ITC-CER-6101**

© 2015, FLIR Systems, Inc.

#ITC-CER-6101; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-CER-6109

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-6109  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
DIN EN ISO 9712 TT Category 1 Certification course, excl. Certification, group up to 10 pers.	
Course information	
Available languages	DACH only
Course details	
Duration	5 days

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)

---

**P/N: ITC-CER-6109**

© 2015, FLIR Systems, Inc.

#ITC-CER-6109; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-CON-1001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CON-1001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

ITC conference fee

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-CON-1001**

© 2015, FLIR Systems, Inc.

#ITC-CON-1001; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-CON-1001**

© 2015, FLIR Systems, Inc.

#ITC-CON-1001; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-EXP-0511

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-0511  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
ITC Getting Started with Thermography - attendance, 1 pers.	
Course information	
Available languages	DE, FR, IT, NL, SE
Course details	
Duration	4 hours

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)

---

**P/N: ITC-EXP-0511**

© 2015, FLIR Systems, Inc.

#ITC-EXP-0511; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5



## P/N: ITC-EXP-0521

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-0521  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

ITC Getting Started with Thermography (evening or weekend) - attendance, 1 pers.

### Course information

Available languages

DE, FR, IT, NL, SE

### Course details

Duration

4 hours

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)

---

**P/N: ITC-EXP-0521**

© 2015, FLIR Systems, Inc.

#ITC-EXP-0521; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-EXP-1021

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1021  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

An on-site training can be customized upon your needs. The participants will learn about IR thermography, inspections, measurements, applications, and reporting corresponding to the level needed for performing measurements and inspection in their working environment. The trainer will give useful advice on how to best implement IR thermography in your business.

This partnumber is reserved for adding additional students to an on site class.

### Content

- An on-site course can be any course, from a 1-day introduction to general thermography, over a customized application course to a complete certification course.

### Labs

- Portable classroom labs
- Field training on the site in agreement with the customer

### Course information

Available languages	English, Dutch, German, French, Italian, Spanish, Swedish, other languages upon request
Target group	<ul style="list-style-type: none"> <li>• Employees of a company or certain departments who would like to minimize travel costs and receive the training directly on their daily working site.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>

### Course details

Duration	Customized or according to the kind of course the in-house training is equivalent to.
Structure	Theory, camera handling, demos, practical labs and field training alternate.

**P/N: ITC-EXP-1021**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1021; r. 23306; en-US

Course details	
Exam	Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> </ul>
Course organization	
ITC	ITC In-house courses are offered worldwide by ITC and partners as listed. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	ITC In-house courses are lectured by ITC qualified instructors with experience in the relevant fields of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm

**P/N: ITC-EXP-1021**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1021; r. 23306; en-US

- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°

**P/N: ITC-EXP-1021**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1021; r. 23306; en-US

- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-1029

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1029  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
An on-site training can be customized upon your needs. The participants will learn about IR thermography, inspections, measurements, applications, and reporting corresponding to the level needed for performing measurements and inspection in their working environment. The trainer will give useful advice on how to best implement IR thermography in your business.	
Content	
<ul style="list-style-type: none"> <li>An on-site course can be any course, from a 1-day introduction to general thermography, over a customized application course to a complete certification course.</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Portable classroom labs</li> <li>Field training on the site in agreement with the customer</li> </ul>	
Course information	
Available languages	English, Dutch, German, French, Italian, Spanish, Swedish, other languages upon request
Target group	<ul style="list-style-type: none"> <li>Employees of a company or certain departments who would like to minimize travel costs and receive the training directly on their daily working site.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>
Course details	
Duration	Customized or according to the kind of course the in-house training is equivalent to.
Structure	Theory, camera handling, demos, practical labs and field training alternate.
Exam	Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.

**P/N: ITC-EXP-1029**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1029; r. 23306; en-US

Course details	
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> </ul>
Note	Course fee does not include cost for instructor's travelling or lodging. When organized at the customers' site, the customer is responsible for providing a suitable classroom and preferably also refreshments/lunch.
Course organization	
ITC	ITC In-house courses are offered worldwide by ITC and partners as listed. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	ITC In-house courses are lectured by ITC qualified instructors with experience in the relevant fields of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)



**P/N: ITC-EXP-1029**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1029; r. 23306; en-US

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL

**P/N: ITC-EXP-1029**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1029; r. 23306; en-US

- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-CER-5105

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5105  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 1 certified thermographer. The participant will learn about the basics of infrared, how to operate the camera under different conditions and for various purposes, how to do an appropriate judgement of the measurement situation in the field and how to identify potential error sources. After the class, the participant will be able to do IR inspections following written guidelines and to report the result of this inspection.

This partnumber is reserved for adding additional students to a level 1 on site class.

### Content

- Introduction to Thermography
- Camera Operation
- Basic physics of heat
- Basic physics of infrared
- Thermal pattern recognition and IR applications
- IR temperature measurement techniques
- Qualitative and quantitative thermography
- Inspection routines and reporting

### Student presentations

During the seminar, students will generate a small case study based on the lab exercises to be presented to the class.

### Labs

- Camera handling
- Level and Span
- Conduction pattern
- Forced convection
- Direct and indirect thermal measurement
- Thermal capacity
- Steady state and transient heat flow
- Evaporation and condensation
- Electrical application
- Emissivity and Reflected apparent temperature
- Spatial resolution
- Location and temperature measurement of a hot/cold spot
- Image transfer to the computer

**P/N: ITC-CER-5105**

© 2015, FLIR Systems, Inc.

#ITC-CER-5105; r. 23306; en-US

Course information	
Available languages	Chinese, Danish, Dutch, English, Finish, French, German, Greek, Hebrew, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (bra.), Romanian, Russian, Serbo-Croatian, Spanish, Swedish, Thai
Target group	<ul style="list-style-type: none"> <li>• Practical user</li> <li>• This course is designed for beginners in thermography with some experience in camera handling and limited IR knowledge, who want to take their first step to become a professional thermographer and want to qualify as a Level 1 certified thermographer.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>• having already some basic experience with IR thermography,</li> <li>• knowing the basic functions of the camera,</li> <li>• who wants to become a certified thermographer in order to gain a competitive advantage or who needs the certifications because of legal reasons or company internal regulations.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Be familiar with the basic operation of an infrared camera</li> <li>• Have the recommended experience within thermography according to relevant standards</li> </ul>

Course details	
Duration	35 – 40 hours
Structure	Theory and camera practice (hands-on) alternate every day, additional labs and software exercises at some days.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>• Attendance of 1 person</li> <li>• Might include more, such as lunch, depending on location and organizing entity</li> </ul>
Note	Only for non-EURO, non-SEK, non NOK, non- £, -non CHF countries

Course organization	
ITC	The Level 1 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)

**P/N: ITC-CER-5105**

© 2015, FLIR Systems, Inc.

#ITC-CER-5105; r. 23306; en-US

- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc

**P/N: ITC-CER-5105**

© 2015, FLIR Systems, Inc.

#ITC-CER-5105; r. 23306; en-US

- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-CER-5101

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5101  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 1 certified thermographer. The participant will learn about the basics of infrared, how to operate the camera under different conditions and for various purposes, how to do an appropriate judgement of the measurement situation in the field and how to identify potential error sources. After the class, the participant will be able to do IR inspections following written guidelines and to report the result of this inspection.

### Content

- Introduction to Thermography
- Camera Operation
- Basic physics of heat
- Basic physics of infrared
- Thermal pattern recognition and IR applications
- IR temperature measurement techniques
- Qualitative and quantitative thermography
- Inspection routines and reporting

### Student presentations

During the seminar, students will generate a small case study based on the lab exercises to be presented to the class.

### Labs

- Camera handling
- Level and Span
- Conduction pattern
- Forced convection
- Direct and indirect thermal measurement
- Thermal capacity
- Steady state and transient heat flow
- Evaporation and condensation
- Electrical application
- Emissivity and Reflected apparent temperature
- Spatial resolution
- Location and temperature measurement of a hot/cold spot
- Image transfer to the computer

**P/N: ITC-CER-5101**

© 2015, FLIR Systems, Inc.

#ITC-CER-5101; r. 23306; en-US

Course information	
Available languages	Chinese, Danish, Dutch, English, Finish, French, German, Greek, Hebrew, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (bra.), Romanian, Russian, Serbo-Croatian, Spanish, Swedish, Thai
Target group	<ul style="list-style-type: none"> <li>• Practical user</li> <li>• This course is designed for beginners in thermography with some experience in camera handling and limited IR knowledge, who want to take their first step to become a professional thermographer and want to qualify as a Level 1 certified thermographer.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>• having already some basic experience with IR thermography,</li> <li>• knowing the basic functions of the camera,</li> <li>• who wants to become a certified thermographer in order to gain a competitive advantage or who needs the certifications because of legal reasons or company internal regulations.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Be familiar with the basic operation of an infrared camera</li> <li>• Have the recommended experience within thermography according to relevant standards</li> </ul>

Course details	
Duration	35 – 40 hours
Structure	Theory and camera practice (hands-on) alternate every day, additional labs and software exercises at some days.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>• Attendance of 1 person</li> <li>• Might include more, such as lunch, depending on location and organizing entity</li> </ul>

Course organization	
ITC	The Level 1 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)



**P/N: ITC-CER-5101**

© 2015, FLIR Systems, Inc.

#ITC-CER-5101; r. 23306; en-US

- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)

**P/N: ITC-CER-5101**

© 2015, FLIR Systems, Inc.

#ITC-CER-5101; r. 23306; en-US

- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-CER-5109

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5109  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 1 certified thermographer. The participant will learn about the basics of infrared, how to operate the camera under different conditions and for various purposes, how to do an appropriate judgement of the measurement situation in the field and how to identify potential error sources. After the class, the participant will be able to do IR inspections following written guidelines and to report the result of this inspection.

### Content

- Introduction to Thermography
- Camera Operation
- Basic physics of heat
- Basic physics of infrared
- Thermal pattern recognition and IR applications
- IR temperature measurement techniques
- Qualitative and quantitative thermography
- Inspection routines and reporting

### Student presentations

During the seminar, students will generate a small case study based on the lab exercises to be presented to the class.

### Labs

- Camera handling
- Level and Span
- Conduction pattern
- Forced convection
- Direct and indirect thermal measurement
- Thermal capacity
- Steady state and transient heat flow
- Evaporation and condensation
- Electrical application
- Emissivity and Reflected apparent temperature
- Spatial resolution
- Location and temperature measurement of a hot/cold spot
- Image transfer to the computer

**P/N: ITC-CER-5109**

© 2015, FLIR Systems, Inc.

#ITC-CER-5109; r. 23306; en-US

Course information	
Available languages	Chinese, Danish, Dutch, English, Finish, French, German, Greek, Hebrew, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (bra.), Romanian, Russian, Serbo-Croatian, Spanish, Swedish, Thai
Target group	<ul style="list-style-type: none"> <li>• Practical user</li> <li>• This course is designed for beginners in thermography with some experience in camera handling and limited IR knowledge, who want to take their first step to become a professional thermographer and want to qualify as a Level 1 certified thermographer.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>• having already some basic experience with IR thermography,</li> <li>• knowing the basic functions of the camera,</li> <li>• who wants to become a certified thermographer in order to gain a competitive advantage or who needs the certifications because of legal reasons or company internal regulations.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Be familiar with the basic operation of an infrared camera</li> <li>• Have the recommended experience within thermography according to relevant standards</li> </ul>

Course details	
Duration	35 – 40 hours
Structure	Theory and camera practice (hands-on) alternate every day, additional labs and software exercises at some days.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>• Attendance of a group up to 10 persons</li> <li>• Might include more, such as lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>

Course organization	
ITC	The Level 1 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)

**P/N: ITC-CER-5109**

© 2015, FLIR Systems, Inc.

#ITC-CER-5109; r. 23306; en-US

- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310

**P/N: ITC-CER-5109**

© 2015, FLIR Systems, Inc.

#ITC-CER-5109; r. 23306; en-US

- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-PRA-2011

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-PRA-2011  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

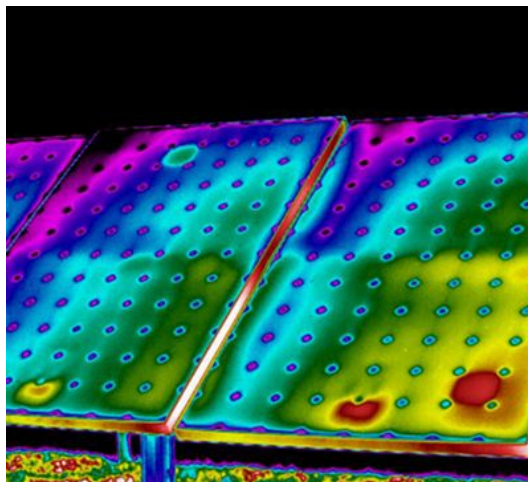
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course gives a general introduction to IR thermography and an overview on its specific use for inspections of photovoltaic solar systems.

During the first day, you learn about the basics of thermography, how a thermal camera works, and how to use it correctly. The second day starts with the basics of photovoltaic solar systems and solar panel installations. You learn about IR metrological particularities that are critical for solar panel inspections with a thermal camera, how to interpret the displayed thermal images, and in which way they can be associated to typical problems and faults. Emphasis is put on case studies, selected from the field, as well as practical exercises.

### Content

- Basics of thermography (radiation, spectral waveband, influences of the atmosphere)
- IR camera: principle, design and operation (FPA, measurement ranges, thermal tuning: level and span, color palettes)
- IR measurement technique: measurement parameters (emissivity, radiation from the environment, distance, relative humidity, atmospheric temperature)
- IR Camera figures of merit: resolution limits (thermal, spatial, time related)
- Practical exercises
- Basics of photovoltaic solar systems (terminology, design, principle of operation, module types)
- Solar panel installation: connection types (string, bypass diodes, shadowing)
- IR metrological particularity (spectral bands, inspection conditions, spatial resolution, camera positioning and angle)
- Typical thermal readouts (examples, causes and interpretation – defect/no defect, practical exercises)

### Course information

Available languages	English, French, German, Swedish, Italian, Dutch, Spanish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in the use of IR thermography for the inspection of photovoltaic solar systems.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person working with maintenance or installation of solar panels.</li> <li>• Thermographers familiar with electrical inspections and interested in solar panel inspections.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic knowledge in electrical installations or another technical field.</li> </ul>

### Course details

Duration	2 days
Structure	Theory, camera handling, demos and practical labs alternate.

**P/N: ITC-PRA-2011**

© 2015, FLIR Systems, Inc.

#ITC-PRA-2011; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by qualified ITC instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Might include more, such as lunch, depending on location</li> </ul>
Course organization	
ITC	The "ITC Practical Course Solar panel inspection" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC or ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Practical Course Solar panel inspection" is lectured by qualified ITC instructors with special experience in the field of solar panel installations.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5





---

**P/N: ITC-PRA-2011**

© 2015, FLIR Systems, Inc.

#ITC-PRA-2011; r. 23306; en-US

- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-PRA-2019

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-PRA-2019  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

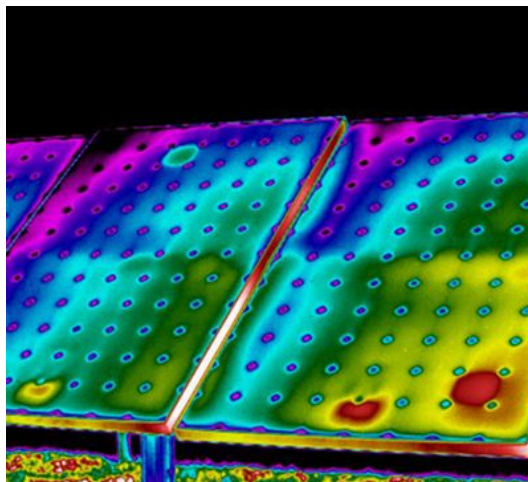
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course gives a general introduction to IR thermography and an overview on its specific use for inspections of photovoltaic solar systems.

During the first day, you learn about the basics of thermography, how a thermal camera works, and how to use it correctly. The second day starts with the basics of photovoltaic solar systems and solar panel installations. You learn about IR metrological particularities that are critical for solar panel inspections with a thermal camera, how to interpret the displayed thermal images, and in which way they can be associated to typical problems and faults. Emphasis is put on case studies, selected from the field, as well as practical exercises.

### Content

- Basics of thermography (radiation, spectral waveband, influences of the atmosphere)
- IR camera: principle, design and operation (FPA, measurement ranges, thermal tuning: level and span, color palettes)
- IR measurement technique: measurement parameters (emissivity, radiation from the environment, distance, relative humidity, atmospheric temperature)
- IR Camera figures of merit: resolution limits (thermal, spatial, time related)
- Practical exercises
- Basics of photovoltaic solar systems (terminology, design, principle of operation, module types)
- Solar panel installation: connection types (string, bypass diodes, shadowing)
- IR metrological particularity (spectral bands, inspection conditions, spatial resolution, camera positioning and angle)
- Typical thermal readouts (examples, causes and interpretation – defect/no defect, practical exercises)

### Course information

Available languages	English, French, German, Swedish, Italian, Dutch, Spanish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in the use of IR thermography for the inspection of photovoltaic solar systems.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person working with maintenance or installation of solar panels.</li> <li>• Thermographers familiar with electrical inspections and interested in solar panel inspections.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic knowledge in electrical installations or another technical field.</li> </ul>

### Course details

Duration	2 days
Structure	Theory, camera handling, demos and practical labs alternate.
Exam	None

**P/N: ITC-PRA-2019**

© 2015, FLIR Systems, Inc.

#ITC-PRA-2019; r. 23306; en-US

Course details	
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by qualified ITC instructor</li> <li>• Training material in printed format</li> <li>• Diploma of attendance</li> <li>• Attendance of a group up to 10 persons</li> <li>• Might include more, such as refreshments or lunch, depending on location.</li> </ul>
Note	Course fee does not include cost for instructor's travelling or lodging.
Course organization	
ITC	The "ITC Practical Course Solar panel inspection" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC or ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Practical Course Solar panel inspection" is lectured by qualified ITC instructors with special experience in the field of solar panel installations.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3



---

**P/N: ITC-PRA-2019**

© 2015, FLIR Systems, Inc.

#ITC-PRA-2019; r. 23306; en-US

- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-2019

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2019  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course gives a general introduction to IR thermography and an overview on its specific use for the inspection of buildings. It aims at giving you clues on what you can do with your camera.

During the first day, you learn the basics of thermography and how to use your camera the best way. The second day you will start with a brief reminder of thermal transfers before you learn about the building envelope, important physical parameters and typical faults. Emphasis is put on case studies, selected from the field.

### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- IR Camera handling
- Basics of heat transfer
- The building envelope
- Important physical parameters
- Major anomalies
- Thermal patterns
- Application guidelines
- Data analysis and reports

### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement
- Building application labs

### Course information

Available languages	English, French, German, Swedish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in IR thermography and building applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person from the building sector</li> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> <li>• Students and pupils with thermography and building application related projects</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>



## ITC Short course building thermography - inclusive 10 pers. (2 days)

### P/N: ITC-EXP-2019

© 2015, FLIR Systems, Inc.

#ITC-EXP-2019; r. 23306; en-US

Course details	
Duration	2 days
Structure	Theory, camera handling, demos and practical labs alternate.
Exam	None
Course fee includes	<ul style="list-style-type: none"><li>• Tuition by qualified ITC instructor</li><li>• Training material in printed format</li><li>• Diploma of attendance</li><li>• Attendance of a group up to 10 persons</li><li>• Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li></ul>
Course organization	
ITC	The "ITC Short Course Building Thermography" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Building Thermography" is lectured by qualified ITC instructors with special experience in the field of building applications.

### Compatible with the following products

- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-2011

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2011  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course gives a general introduction to IR thermography and an overview on its specific use for the inspection of buildings. It aims at giving you clues on what you can do with your camera.

During the first day, you learn the basics of thermography and how to use your camera the best way. The second day you will start with a brief reminder of thermal transfers before you learn about the building envelope, important physical parameters and typical faults. Emphasis is put on case studies, selected from the field.

### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- IR Camera handling
- Basics of heat transfer
- The building envelope
- Important physical parameters
- Major anomalies
- Thermal patterns
- Application guidelines
- Data analysis and reports

### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement
- Building application labs

### Course information

Available languages	English, French, German, Swedish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in IR thermography and building applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person from the building sector</li> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> <li>• Students and pupils with thermography and building application related projects</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>



**P/N: ITC-EXP-2011**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2011; r. 23306; en-US

Course details	
Duration	2 days
Structure	Theory, camera handling, demos and practical labs alternate.
Exam	None
Course fee includes	<ul style="list-style-type: none"><li>• Tuition by qualified ITC instructor</li><li>• Training material in printed format</li><li>• Diploma of attendance</li><li>• Might include more, such as refreshments or lunch, depending on location and organizing entity</li></ul>
Course organization	
ITC	The "ITC Short Course Building Thermography" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Building Thermography" is lectured by qualified ITC instructors with special experience in the field of building applications.

**Compatible with the following products**

- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display



## P/N: ITC-EXP-2041

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2041  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course gives a general introduction to IR thermography and an overview on its specific use for inspections of electrical systems. It aims at giving you clues on what you can do with your camera.

During the first day, you learn the basics of thermography and how to use your camera the best way. The second day you will start with a brief reminder of thermal transfers before you learn about electrical systems and components, material properties, typical problems and faults. Emphasis is put on case studies, selected from the field.

### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- IR Camera handling
- Basics of heat transfer
- Electrical systems
- Important properties of material
- Most common problems
- Case studies
- Common mistakes
- Application guidelines
- Data analysis and reports

### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement
- Electrical application labs

### Course information

Available languages	English, French, German, Swedish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in IR thermography and electrical applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person working with maintenance or installation of electrical systems</li> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> <li>• Students and pupils with thermography and electrical application related projects</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>

**P/N: ITC-EXP-2041**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2041; r. 23306; en-US

Course details	
Duration	2 days
Structure	Theory, camera handling, demos and practical labs alternate.
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by qualified ITC instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Might include more, such as lunch, depending on location</li> </ul>
Course organization	
ITC	The "ITC Short Course Electrical Thermography" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Electrical Thermography" is lectured by qualified ITC instructors with special experience in the field of electrical installations.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)



---

**P/N: ITC-EXP-2041**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2041; r. 23306; en-US

- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-2049

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2049  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course gives a general introduction to IR thermography and an overview on its specific use for inspections of electrical systems. It aims at giving you clues on what you can do with your camera.

During the first day, you learn the basics of thermography and how to use your camera the best way. The second day you will start with a brief reminder of thermal transfers before you learn about electrical systems and components, material properties, typical problems and faults. Emphasis is put on case studies, selected from the field.

### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- IR Camera handling
- Basics of heat transfer
- Electrical systems
- Important properties of material
- Most common problems
- Case studies
- Common mistakes
- Application guidelines
- Data analysis and reports

### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement
- Electrical application labs

### Course information

Available languages	English, French, German, Swedish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in IR thermography and electrical applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person working with maintenance or installation of electrical systems</li> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> <li>• Students and pupils with thermography and electrical application related projects</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>

**P/N: ITC-EXP-2049**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2049; r. 23306; en-US

Course details	
Duration	2 days
Structure	Theory, camera handling, demos and practical labs alternate.
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by qualified ITC instructor</li> <li>• Training material in printed format</li> <li>• Diploma of attendance</li> <li>• Attendance of a group up to 10 persons</li> <li>• Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	The "ITC Short Course Electrical Thermography" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Electrical Thermography" is lectured by qualified ITC instructors with special experience in the field of electrical installations.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)



---

**P/N: ITC-EXP-2049**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2049; r. 23306; en-US

- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-2061

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2061  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

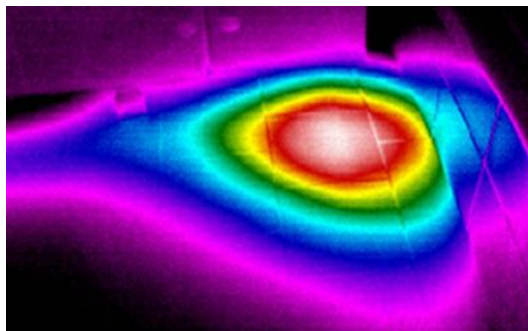
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course gives a general introduction to IR thermography and an overview on its specific use for inspections of heating and HVAC systems, and related installations. It aims at giving you clues on what you can do with your camera.

During the first day, you learn the basics of thermography, and how to use your camera the best way. The second day you will get introduced to various heating systems before you learn about typical faults and how thermography helps you to locate and analyze these. Emphasis is put on case studies, selected from the field.

### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- IR Camera handling
- Heating systems
- Pipe tracing and localization of water circuits
- Water leaks
- Moisture and humidity
- Water radiators
- Tanks, manifolds and plenums
- HVAC systems
- Industrial heat exchangers
- Photovoltaic panel inspection
- Data analysis and reports

### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement
- Application labs

### Course information

Available languages	English, French, German, Italian, Spanish, Swedish
Target group	<ul style="list-style-type: none"> <li>• Beginners and anybody interested in IR thermography, plumbing and HVAC applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Plumbers or persons working with plumbing and or/HVAC systems</li> <li>• Facility managers</li> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>

### Course details

Duration	2 days
Structure	Theory, camera handling, demos and practical labs alternate.



**P/N: ITC-EXP-2061**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2061; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"><li>• Tuition by qualified ITC instructor</li><li>• Training material in printed format</li><li>• Refreshments</li><li>• Diploma of attendance</li><li>• Might include more, such as lunch, depending on location</li></ul>
Course organization	
ITC	The "ITC Short Course HVAC and plumbing" is offered in EMEA by ITC and partners. Specific customer requests shall be forwarded to the closest ITC or ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course HVAC and plumbing" is lectured by qualified ITC instructors with special experience in the field of electrical installations.

**Compatible with the following products**

- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display



## P/N: ITC-EXP-2069

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2069  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

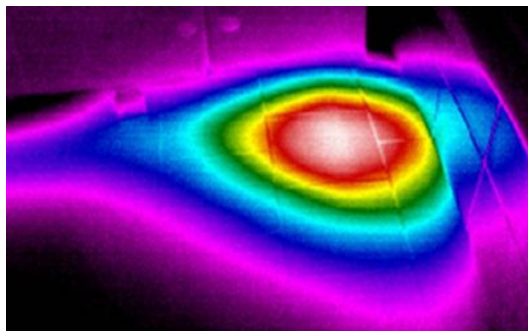
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course gives a general introduction to IR thermography and an overview on its specific use for inspections of heating and HVAC systems, and related installations. It aims at giving you clues on what you can do with your camera.

During the first day, you learn the basics of thermography, and how to use your camera the best way. The second day you will get introduced to various heating systems before you learn about typical faults and how thermography helps you to locate and analyze these. Emphasis is put on case studies, selected from the field.

### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- IR Camera handling
- Heating systems
- Pipe tracing and localization of water circuits
- Water leaks
- Moisture and humidity
- Water radiators
- Tanks, manifolds and plenums
- HVAC systems
- Industrial heat exchangers
- Photovoltaic panel inspection
- Data analysis and reports

### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement
- Application labs

### Course information

Available languages	English, French, German, Italian, Spanish, Swedish
Target group	<ul style="list-style-type: none"> <li>• Beginners and anybody interested in IR thermography, plumbing and HVAC applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Plumbers or persons working with plumbing and or/HVAC systems</li> <li>• Facility managers</li> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>

### Course details

Duration	2 days
Structure	Theory, camera handling, demos and practical labs alternate.
Exam	None



**P/N: ITC-EXP-2069**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2069; r. 23306; en-US

Course details	
Course fee includes	<ul style="list-style-type: none"><li>• Tuition by qualified ITC instructor</li><li>• Training material in printed format</li><li>• Diploma of attendance</li><li>• Attendance of a group up to 10 persons</li><li>• Might include more, such as refreshments or lunch, depending on location.</li></ul>
Note	Course fee does not include cost for instructor's travelling or lodging.
Course organization	
ITC	The "ITC Short Course HVAC and plumbing" is offered in EMEA by ITC and partners. Specific customer requests shall be forwarded to the closest ITC or ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course HVAC and plumbing" is lectured by qualified ITC instructors with special experience in the field of electrical installations.

**Compatible with the following products**

- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-1019

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1019  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This is a full one day course for beginners and everybody interested in IR thermography and its applications. The course covers the basics of IR theory and includes demos, camera hand-on and practical exercises using relevant key labs.

### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- Introduction to electrical and building inspections
- IR Camera handling
- Data analysis and reports

### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement

### Course information

Available languages	English, French, German, Swedish, Danish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in IR thermography and its applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> <li>• A person who starts to use IR cameras at work</li> <li>• Students and pupils with thermography related projects</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>

### Course details

Duration	1 day
Structure	Theory, camera handling and demos in the morning. Practical labs in the afternoon.

**P/N: ITC-EXP-1019**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1019; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	The "ITC Short Course Introduction to Thermography" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Introduction to Thermography" is lectured by qualified ITC instructors with long time experience in the various fields of thermography.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)

**P/N: ITC-EXP-1019**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1019; r. 23306; en-US

- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC



---

**P/N: ITC-EXP-1019**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1019; r. 23306; en-US

- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-1011

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1011  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This is a full one day course for beginners and everybody interested in IR thermography and its applications. The course covers the basics of IR theory and includes demos, camera hand-on and practical exercises using relevant key labs.

#### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- Introduction to electrical and building inspections
- IR Camera handling
- Data analysis and reports

#### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement

### Course information

Available languages	English, French, German, Swedish, Danish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in IR thermography and its applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> <li>• A person who starts to use IR cameras at work</li> <li>• Students and pupils with thermography related projects</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>

### Course details

Duration	1 day
Structure	Theory, camera handling and demos in the morning. Practical labs in the afternoon.

**P/N: ITC-EXP-1011**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1011; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by qualified ITC instructor</li> <li>• Training material in printed format</li> <li>• Diploma of attendance</li> <li>• Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>
Course organization	
ITC	The "ITC Short Course Introduction to Thermography" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Introduction to Thermography" is lectured by qualified ITC instructors with long time experience in the various fields of thermography.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)



**P/N: ITC-EXP-1011**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1011; r. 23306; en-US

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL

---

**P/N: ITC-EXP-1011**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1011; r. 23306; en-US

- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-SOW-0001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-SOW-0001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

These courses are for users of FLIR software like FLIR Reporter Professional or FLIR ResearchIR. Please observe that content and labs depend on the software used.

#### Content

- System requirements
- Configuration
- Analyzing functions
- Templates
- Reporting functions
- Data exchange

#### Labs

- System set up
- Data import
- Data analysis
- Creating templates
- Creating reports
- Exporting data
- Triggering

### Course information

Available languages	English, French, German, other languages upon request
Target group	<ul style="list-style-type: none"> <li>• Persons interested in, or users, of the specific software.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Consultants interested in reporting</li> <li>• Building inspectors with reporting needs</li> <li>• R&amp;D staff interested in advanced data analysis</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Laptop with installed software full version or 30 day demo (download on <a href="http://www.flir.com">www.flir.com</a>)</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic knowledge about thermography and related parameters.</li> </ul>

### Course details

Duration	Depends on software.
Structure	Short system introduction, then demos and practical exercises.

**P/N: ITC-SOW-0001**

© 2015, FLIR Systems, Inc.  
#ITC-SOW-0001; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>
Course organization	
ITC	Software courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Software courses are lectured by ITC qualified instructors experienced in usage of the software being subject of the class.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)

**P/N: ITC-SOW-0001**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0001; r. 23306; en-US

- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°

**P/N: ITC-SOW-0001**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0001; r. 23306; en-US

- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-SOW-0009

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-SOW-0009  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
These courses are for users of FLIR software like FLIR Reporter Professional or FLIR ResearchIR. Please observe that content and labs depend on the software used.	
Content	
<ul style="list-style-type: none"> <li>System requirements</li> <li>Configuration</li> <li>Analyzing functions</li> <li>Templates</li> <li>Reporting functions</li> <li>Data exchange</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>System set up</li> <li>Data import</li> <li>Data analysis</li> <li>Creating templates</li> <li>Creating reports</li> <li>Exporting data</li> <li>Triggering</li> </ul>	
Course information	
Available languages	English, French, German, other languages upon request
Target group	<ul style="list-style-type: none"> <li>Persons interested in, or users, of the specific software.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Consultants interested in reporting</li> <li>Building inspectors with reporting needs</li> <li>R&amp;D staff interested in advanced data analysis</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Laptop with installed software full version or 30 day demo (download on <a href="http://www.flir.com">www.flir.com</a>)</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Basic knowledge about thermography and related parameters.</li> </ul>
Course details	
Duration	Depends on software.
Structure	Short system introduction, then demos and practical exercises.

**P/N: ITC-SOW-0009**

© 2015, FLIR Systems, Inc.  
#ITC-SOW-0009; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	Software courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Software courses are lectured by ITC qualified instructors experienced in usage of the software being subject of the class.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm



**P/N: ITC-SOW-0009**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0009; r. 23306; en-US

- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°

**P/N: ITC-SOW-0009**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0009; r. 23306; en-US

- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-1001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	1 day
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-1001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1001; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-1001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1001; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-1001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1001; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-1009

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1009  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	1 day
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-1009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1009; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm



**P/N: ITC-EXP-1009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1009; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-1009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1009; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-2001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	2 days
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-2001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2001; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-2001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2001; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-2001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2001; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-2009

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2009  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	2 days
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-2009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2009; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm



**P/N: ITC-EXP-2009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2009; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-2009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2009; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-3001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-3001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	3 days
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-3001**

© 2015, FLIR Systems, Inc.  
#ITC-EXP-3001; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-3001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3001; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-3001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3001; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-3009

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-3009  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	3 days
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-3009**

© 2015, FLIR Systems, Inc.  
#ITC-EXP-3009; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm



**P/N: ITC-EXP-3009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3009; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-3009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3009; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-SOW-1001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-SOW-1001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

ITC Training FLIR Software - attendance 1 pers. (1 day)

### Course details

Duration	1 day
----------	-------

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)



---

**P/N: ITC-SOW-1001**

© 2015, FLIR Systems, Inc.

#ITC-SOW-1001; r. 23306; en-US

- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-SOW-2001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-SOW-2001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

ITC Training FLIR Software - attendance 1 pers. (2 days)

### Course details

Duration	2 days
----------	--------

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)



---

**P/N: ITC-SOW-2001**

© 2015, FLIR Systems, Inc.

#ITC-SOW-2001; r. 23306; en-US

- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TFT-0100

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TFT-0100  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

ITC travel time for instructor

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TFT-0100**

© 2015, FLIR Systems, Inc.  
#ITC-TFT-0100; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC



**P/N: ITC-TFT-0100**

© 2015, FLIR Systems, Inc.  
#ITC-TFT-0100; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-FEE-0130

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-FEE-0130  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
EN - Repeat Certification EN473 IT Category 1	
Course information	
Available languages	DACH only
Course details	
Duration	1 day

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)

**P/N: ITC-FEE-0130**

© 2015, FLIR Systems, Inc.

#ITC-FEE-0130; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TOL-1003

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1003  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (Center and South Africa)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1003**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1003; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TOL-1003**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1003; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TOL-1001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (Europe, Balcans, Turkey, Cyprus)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1001**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1001; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC



**P/N: ITC-TOL-1001**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1001; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TOL-1005

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1005  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (other)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1005**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1005; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TOL-1005**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1005; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TOL-1002

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1002  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (Russia/GUS, Middle East, North Africa)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1002**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1002; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TOL-1002**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1002; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TOL-1004

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1004  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (various)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)



**P/N: ITC-TOL-1004**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1004; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TOL-1004**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1004; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## **Accessories for FLIR ixx series (discontinued camera series)**

---

## P/N: 19250-100

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 19250-100  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This device is a viewport which consist of a crystal "glass" window, mounted in an aluminum frame. The glass is specially formulated to allow transmission of infrared light to allow use of infrared thermal sensing equipment without opening the enclosure. This device is intended for installation in doors or walls of electrical enclosures without compromising the integrity of the enclosure.	
Power system	
Voltage	Any range
Environmental data	
Environment	Indoor/outdoor type 4/12
Operating temperature range	Maximum: 260°C (500°F)
Storage temperature range	Optics, maximum: 1357°C (2474°F)
Physical data	
Size (L × W × H)	25.5 × 73 × 86 mm (1.0 × 2.87 × 3.36 in.)
Viewing aperture diameter	45 mm (1.77 in.)
Material	Optics: CaF <sub>2</sub> (Calcium Fluoride Crystal) Body: Anodized aluminum Hardware: steel
Comments to physical data	Required hole diameter, nominal: 60.3 mm (2.375 in.) Greenlee Punch: 76BB Maximum pullout strength: 658 kg (1450 lb.)
Lens	
Waveband	Broadband IR: short-, mid-, and longwave
Visible light spectrum	Yes
Certifications	
Certification	UL, IP67, NEMA Type 4/12, CSA
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>IR window</li> <li>Case</li> <li>Mounting instruction</li> <li>Additional safety screw</li> </ul>
Packaging, weight	0.24 kg (0.53 lb.)
Packaging, size	120 × 115 × 40 mm (4.7 × 4.5 × 1.6 in.)
EAN-13	4743254000728
UPC-12	845188002817
Country of origin	Estonia



IR Window 2 in

---

**P/N: 19250-100**

© 2015, FLIR Systems, Inc.  
#19250-100; r. 23306; en-US

**Supplies & accessories:**

## P/N: 19251-100

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 19251-100  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This device is a viewport which consist of a crystal "glass" window, mounted in an aluminum frame. The glass is specially formulated to allow transmission of infrared light to allow use of infrared thermal sensing equipment without opening the enclosure. This device is intended for installation in doors or walls of electrical enclosures without compromising the integrity of the enclosure.	
Power system	
Voltage	Any range
Environmental data	
Environment	Indoor/outdoor type 4/12
Operating temperature range	Maximum: 260°C (500°F)
Storage temperature range	Optics, maximum: 1357°C (2474°F)
Physical data	
Size (L × W × H)	26.9 × 99 × 107 mm (1.05 × 3.89 × 4.22 in.)
Viewing aperture diameter	69 mm (2.71 in.)
Material	Optics: CaF <sub>2</sub> (Calcium Fluoride Crystal) Body: Anodized aluminum Hardware: steel
Comments to physical data	Required hole diameter, nominal: 88.9 mm (3.5 in.) Greenlee Punch: 739BB Maximum pullout strength: 1656 kg (3650 lb.)
Lens	
Waveband	Broadband IR: short-, mid-, and longwave
Visible light spectrum	Yes
Certifications	
Certification	UL, IP67, NEMA Type 4/12, CSA
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>IR window</li> <li>Case</li> <li>Mounting instruction</li> <li>Additional safety screw</li> </ul>
Packaging, weight	0.39 kg (0.86 lb.)
Packaging, size	130 × 140 × 40 mm (5.12 × 5.51 × 1.58 in.)
EAN-13	4743254000735
UPC-12	845188002824
Country of origin	Estonia



IR Window 3 in.

---

**P/N: 19251-100**

© 2015, FLIR Systems, Inc.  
#19251-100; r. 23306; en-US

**Supplies & accessories:**

## P/N: 19252-100

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 19252-100  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This device is a viewport which consist of a crystal "glass" window, mounted in an aluminum frame. The glass is specially formulated to allow transmission of infrared light to allow use of infrared thermal sensing equipment without opening the enclosure. This device is intended for installation in doors or walls of electrical enclosures without compromising the integrity of the enclosure.	
Power system	
Voltage	Any range
Environmental data	
Environment	Indoor/outdoor type 4/12
Operating temperature range	Maximum: 260°C (500°F)
Storage temperature range	Optics, maximum: 1357°C (2474°F)
Physical data	
Size (L x W x H)	29.3 x 127 x 137 mm (1.15 x 5.01 x 5.37 in.)
Viewing aperture diameter	89 mm (3.50 in.)
Material	Optics: CaF2 (Calcium Fluoride Crystal) Body: Anodized aluminum Hardware: steel
Comments to physical data	Required hole diameter, nominal: 114.3 mm (4.5 in.) Greenlee Punch: 742BB Maximum pullout strength: 1678 kg (3700 lb.)
Lens	
Waveband	Broadband IR: short-, mid-, and longwave
Visible light spectrum	Yes
Certifications	
Certification	UL, IP67, NEMA Type 4/12, CSA
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>IR window</li> <li>Case</li> <li>Mounting instruction</li> <li>Additional safety screw</li> </ul>
Packaging, weight	0.46 kg (1.01 lb.)
Packaging, size	165 x 175 x 40 mm (6.50 x 6.89 x 1.58 in.)
EAN-13	4743254000742
UPC-12	845188002831
Country of origin	Estonia





IR Window 4 in.

---

**P/N: 19252-100**

© 2015, FLIR Systems, Inc.  
#19252-100; r. 23306; en-US

**Supplies & accessories:**

## P/N: 1196398ACC

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1196398ACC  
Commit: 23871  
Language: en-US  
Modified: 2015-03-10 13:36  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
High capacity battery for the IR camera.	
Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	7.2 V
Battery capacity	2.2 Ah, at +20°C (+68°F)
Battery note	Approximate lithium content: 1.0 g
Charging time	2.5 h to 95% capacity, charging status indicated by LEDs
Charging temperature	0°C to +45°C (+32°F to +113°F)
Environmental data	
Battery storage temperature range	-40°C to +70°C (-40°F to +158°F)
Physical data	
Battery weight	0.12 kg (0.26 lb.)
Size (L x W x H)	92 x 41 x 26 mm (3.6 x 1.6 x 1.0 in.)
Shipping information	
Packaging, type	Cardboard box
List of contents	• Battery
Packaging, weight	0.21 kg (0.46 lb.)
Packaging, size	183 x 136 x 63 mm (7.2 x 5.4 x 2.5 in.)
EAN-13	7332558007921
UPC-12	845188008284
Country of origin	Sweden

### Compatible with the following products

- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)

## P/N: T198509

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198509  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This cable is used to power the infrared camera from the cigarette lighter socket in a car.	
Note: This is the same product as p/n 1196497.	
Physical data	
Cable length	1.2 m (3.9 ft).
Shipping information	
Packaging, type	Cardboard box
Packaging, weight	0.125 kg (0.28 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558004340 4743254001435 (Estonia plant)
UPC-12	845188004361
Country of origin	Sweden

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)

**P/N: T198509**

© 2015, FLIR Systems, Inc.  
#T198509; r. 23306; en-US

- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72201-0106; FLIR K45
- 72201-0206; FLIR K55

## P/N: T197667

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197667  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
A complete battery package consisting of three standard products	
Shipping information	
List of contents	<ul style="list-style-type: none"> <li>T197648 Battery kit, see 1196398 - Battery for specifications</li> <li>T197650 2-bay charger kit incl Power supply</li> <li>T197649 12 VDC Connection cable kit, see 1196497 - 12 VDC connection cable for specifications</li> </ul>
EAN-13	7332558009307
UPC-12	845188009830
Country of origin	Sweden

### Compatible with the following products

- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)

### P/N: T197650

#### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

#### Document identity

Publ. No.: T197650  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

#### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

#### Website

<http://www.flir.com>

#### Customer support

<http://support.flir.com>

#### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Stand-alone 2-bay battery charger, including power supply with multi plugs.	
Power system	
AC operation	100–240 VAC, 50/60 Hz, 12 VDC out
Power	2000 mA at 12 VDC
Physical data	
Battery charger size (L × W × H)	80 × 98 × 47 mm (3.2 × 3.9 × 1.8 in.), without battery
Cable length	1.98 m (6.5 ft.)
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Stand-alone 2-bay battery charger</li> <li>• Power supply including cable</li> <li>• EU plug</li> <li>• UK plug</li> <li>• US plug</li> <li>• AU plug</li> </ul>
Packaging, weight	0.542 kg (1.2 lb.)
Packaging, size	243 × 165 × 82 mm (9.6 × 6.5 × 3.2 in.)
EAN-13	7332558007914
UPC-12	845188002657
Country of origin	Sweden

#### Compatible with the following products

- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)

## P/N: T910814

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T910814  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
FLIR P/B/SC6xx and FLIR GF3xx series:	
Power supply, including multiple plugs, to charge the battery when it is inside or outside of the camera.	
FLIR T6xx and FLIR Exx series:	
Power supply, including multiple plugs, to charge the battery when it is inside the camera or in the battery charger.	
Power system	
AC operation	100–240 VAC, 50/60 Hz, 12 VDC out
Power	3000 mA at 12 VDC
Physical data	
Cable length	1.98 m (6.5 ft.)
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Power supply including cable</li> <li>EU plug</li> <li>UK plug</li> <li>US plug</li> <li>AU plug</li> </ul>
Packaging, weight	0.324 kg (9.7 lb.)
Packaging, size	152 × 78 × 73 mm (6.0 × 3.1 × 2.9 in.)
EAN-13	7332558003794 4743254001763 (Estonia plant)
UPC-12	845188002145
Country of origin	Sweden

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)

**P/N: T910814**

© 2015, FLIR Systems, Inc.  
#T910814; r. 23306; en-US

- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)





Power supply, incl. multi plugs

---

**P/N: T910814**

© 2015, FLIR Systems, Inc.  
#T910814; r. 23306; en-US

- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

**P/N: 1910423**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 1910423  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This cable is used to connect the infrared camera with a computer, using the USB protocol.	
Physical data	
Weight	60 g (2.1 oz.)
Cable length	1.8 m (5.9 ft.)
Connector	Standard USB-A to USB Mini-B
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558003428
UPC-12	845188002176
Country of origin	Sweden

## Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)

**P/N: 1910423**

© 2015, FLIR Systems, Inc.  
#1910423; r. 23306; en-US

- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40



---

**P/N: 1910423**

© 2015, FLIR Systems, Inc.  
#1910423; r. 23306; en-US

- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72201-0106; FLIR K45
- 72201-0206; FLIR K55

## P/N: 1122000

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1122000  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Camera pouch for E Series, InfraCAM/BCAM and FLIR i/bXX with waist belt (max 1.2 m, 3.9 ft.) made of Codura fabric with externally attached battery pouch.

### Physical data

Weight	42 g (1.48 oz.)
Size (L x W x H)	300 x 180 x 90 mm (11.8 x 7.1 x 3.5 in.)
Color	Black

### Shipping information

Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009628
UPC-12	845188010201
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: T197247

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197247  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Rugged, watertight plastic shipping case for FLIR i/bXX. Holds all items neatly and securely. The case can be locked with padlocks and features a breather valve to prevent pressure build-up in airplane cargo holds.

### Physical data

Weight	2.1 kg (4.6 lb.)
Size (L x W x H)	360 x 290 x 165 mm (14.2 x 11.4 x 6.5 in.)

### Shipping information

Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009659
UPC-12	845188010232
Country of origin	Sweden

### Compatible with the following products

- N/A

**P/N: T198586**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: T198586  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description
FLIR Reporter Professional is a powerful software for creating compelling and professional, fully customized, easy-to-interpret maintenance reports.
Professional Report Wizard guides you step-by-step in combining all IR inspection data - infrared and visual images, temperature measurements, and text notes – into a professional, easy-to-interpret maintenance report.
Key features:
<ul style="list-style-type: none"> <li>• Flexible report page design and layout for customized reports</li> <li>• Use quick insert function to easily create custom report pages</li> <li>• Fully integrated with standard Microsoft Word</li> <li>• Generates reports in standard MS Office format and PDF-format</li> <li>• Powerful temperature analysis</li> <li>• Triple Fusion Picture-in-Picture (movable, sizable, scalable)</li> <li>• Rapid report manager supporting automatic report generation by drag-and-drop</li> <li>• Support for MSX (Multi-Spectral Dynamic Imaging) images</li> <li>• Support for sketch images in both IR and visual with on/off toggling</li> <li>• Support for same FOV ("Field of View Match")</li> <li>• Grid settings</li> <li>• Trending functionality</li> <li>• Automatic link to Google™ Maps for images with GPS coordinates</li> <li>• Automatic summary table for the report</li> <li>• Fine tune images and make full temperature analysis directly in Microsoft Word</li> <li>• Spell check</li> <li>• Create your own formulas including measurement values from images</li> <li>• Play radiometric sequences directly in the report</li> <li>• Search functionality to quickly finding images for your report</li> <li>• Panorama tool for combining several images to a larger image</li> <li>• Support for GF series IR images</li> <li>• Auto Update function</li> <li>• Office 2003 (32-bit), Office 2007 (32-bit) and Office 2010 (32-bit)</li> <li>• Windows 7 (32 and 64-bit), Windows Vista (32 and 64-bit)</li> <li>• Support for METERLiNK™ data</li> <li>• *.docx compatibility</li> </ul>
Download
Download your copy of FLIR Reporter Professional here:
<a href="http://support.flir.com/reporter">http://support.flir.com/reporter</a>

**P/N: T198586**

© 2015, FLIR Systems, Inc.  
#T198586; r. 23306; en-US

Release notes	
Version	9.2
New features	<ul style="list-style-type: none"> <li>— News in 9.2: —</li> <li>Option to hide Zoom Viewer</li> <li>Option to extract Visual image from MSI/Fusion image.</li> <li>Support for the new FLIR Ex and Exx series cameras.</li> <li>Support for multispectral images.</li> <li>Support for auto-oriented images.</li> <li>Various bug fixes.</li> </ul>
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>FLIR Reporter Professional scratchcard</li> </ul>
Packaging, weight	0.135 kg (0.3 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005286 4743254001893 (Estonia plant)
UPC-12	845188005498
Country of origin	Sweden
System requirements	
Operating system	<ul style="list-style-type: none"> <li>Windows XP, 32-bit</li> <li>Windows Vista, 32-bit</li> <li>Windows Vista, 64-bit</li> <li>Windows 7, 32-bit</li> <li>Windows 7, 64-bit</li> </ul>
Software requirements	<ul style="list-style-type: none"> <li>Office 2007 (32-bit)</li> <li>Office 2010 (32-bit)</li> </ul>

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)



**P/N: T198586**

© 2015, FLIR Systems, Inc.  
#T198586; r. 23306; en-US

- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: T198586

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198586  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description
FLIR Reporter Professional is a powerful software for creating compelling and professional, fully customized, easy-to-interpret maintenance reports.
Professional Report Wizard guides you step-by-step in combining all IR inspection data - infrared and visual images, temperature measurements, and text notes – into a professional, easy-to-interpret maintenance report.
Key features:
<ul style="list-style-type: none"> <li>• Flexible report page design and layout for customized reports</li> <li>• Use quick insert function to easily create custom report pages</li> <li>• Fully integrated with standard Microsoft Word</li> <li>• Generates reports in standard MS Office format and PDF-format</li> <li>• Powerful temperature analysis</li> <li>• Triple Fusion Picture-in-Picture (movable, sizable, scalable)</li> <li>• Rapid report manager supporting automatic report generation by drag-and-drop</li> <li>• Support for MSX (Multi-Spectral Dynamic Imaging) images</li> <li>• Support for sketch images in both IR and visual with on/off toggling</li> <li>• Support for same FOV ("Field of View Match")</li> <li>• Grid settings</li> <li>• Trending functionality</li> <li>• Automatic link to Google™ Maps for images with GPS coordinates</li> <li>• Automatic summary table for the report</li> <li>• Fine tune images and make full temperature analysis directly in Microsoft Word</li> <li>• Spell check</li> <li>• Create your own formulas including measurement values from images</li> <li>• Play radiometric sequences directly in the report</li> <li>• Search functionality to quickly finding images for your report</li> <li>• Panorama tool for combining several images to a larger image</li> <li>• Support for GF series IR images</li> <li>• Auto Update function</li> <li>• Office 2003 (32-bit), Office 2007 (32-bit) and Office 2010 (32-bit)</li> <li>• Windows 7 (32 and 64-bit), Windows Vista (32 and 64-bit)</li> <li>• Support for METERLiNK™ data</li> <li>• *.docx compatibility</li> </ul>
Download
Download your copy of FLIR Reporter Professional here:
<a href="http://support.flir.com/reporter">http://support.flir.com/reporter</a>

**P/N: T198586**

© 2015, FLIR Systems, Inc.  
#T198586; r. 23306; en-US

Release notes	
Version	9.2
New features	<ul style="list-style-type: none"> <li>— News in 9.2: —</li> <li>Option to hide Zoom Viewer</li> <li>Option to extract Visual image from MSI/Fusion image.</li> <li>Support for the new FLIR Ex and Exx series cameras.</li> <li>Support for multispectral images.</li> <li>Support for auto-oriented images.</li> <li>Various bug fixes.</li> </ul>
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>FLIR Reporter Professional scratchcard</li> </ul>
Packaging, weight	0.135 kg (0.3 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005286 4743254001893 (Estonia plant)
UPC-12	845188005498
Country of origin	Sweden
System requirements	
Operating system	<ul style="list-style-type: none"> <li>Windows XP, 32-bit</li> <li>Windows Vista, 32-bit</li> <li>Windows Vista, 64-bit</li> <li>Windows 7, 32-bit</li> <li>Windows 7, 64-bit</li> </ul>
Software requirements	<ul style="list-style-type: none"> <li>Office 2007 (32-bit)</li> <li>Office 2010 (32-bit)</li> </ul>

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)

**P/N: T198586**

© 2015, FLIR Systems, Inc.  
#T198586; r. 23306; en-US

- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: DSW-10000

### Copyright

© 2015, FLIR Systems, Inc.

All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: DSW-10000

Commit: 24597

Language: en-US

Modified: 2015-04-09 13:38

Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.

27700 SW Parkway Ave.

Wilsonville, OR 97070

USA

Telephone: +1-503-498-3547

### Website

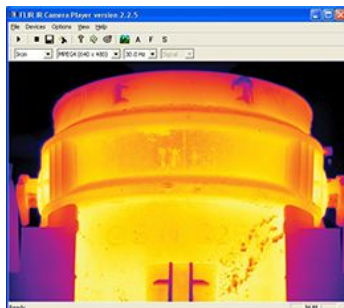
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

FLIR IR Camera Player is a PC-based remote control and viewer that you can use with cameras from FLIR Systems.

You can perform one or more of the following with FLIR IR Camera Player:

- Record a video stream from the camera.
- Save a frame from the video stream as a snapshot image (\*.bmp).
- Autofocus, focus far, and focus near.
- Autoadjust the camera image.
- Freeze the camera image.
- Save a camera image in the camera.
- Change Color palette.
- Add an image description and a text comment to an image.

You connect a camera in one of the following ways:

- Ethernet
- FireWire
- USB

### Download

This software is a freeware. To download, click the following link:

<http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=89>

### Release notes

Version	2.3.3
New features	<p>Main improvements in version 2.3.3:</p> <ul style="list-style-type: none"> <li>• Added latest device drivers (1.9.1.0).</li> <li>• Various bugfixes</li> </ul> <p>Main improvements in version 2.2.7:</p> <ul style="list-style-type: none"> <li>• Added support for FLIR Ax5 series.</li> </ul>

### System requirements

Operating system	<ul style="list-style-type: none"> <li>• Windows XP, 32-bit</li> <li>• Windows Vista, 32-bit/64-bit</li> <li>• Windows 7, 32-bit/64-bit</li> </ul>
------------------	--

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)

**P/N: DSW-10000**

© 2015, FLIR Systems, Inc.  
#DSW-10000; r. 24597; en-US

- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc

**P/N: DSW-10000**

© 2015, FLIR Systems, Inc.  
#DSW-10000; r. 24597; en-US

- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)



---

**P/N: DSW-10000**

© 2015, FLIR Systems, Inc.  
#DSW-10000; r. 24597; en-US

- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)



**P/N: T198696**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: T198696  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

FLIR ResearchIR Max 4.0 is aimed at R&D and science professionals who use thermal imaging cameras with a cooled or uncooled detectors. FLIR ResearchIR Max makes the most of a thermal imaging camera, and allows high-speed recording and advanced thermal pattern analysis. FLIR ResearchIR Max is the perfect tool for industrial R&D.

### Main features:

- Pre/post-recording.
- Mathematical processing toolbox.
- Image filtering toolbox.
- Radiometric digital detail enhancement (DDE) improves dramatically the understanding of the thermal image, while maintaining radiometric measurement accuracy.
- View, record and store images at high speed.
- Post-processing of fast thermal events.
- Generate time-temperature plots from live images or recorded sequences.
- Advanced start/stop recording conditions.
- Unlimited number of analysis functions (spot, line, area).
- File organizer.
- Zoom and pan allows a closer look.
- Multiple dockable objects for plots and statistics.
- Export images and results to bitmap, video, Excel, MATLAB or CSV formats
- Local scale gain control on measurement - automatically adjusts the contrast in a specific part of the image.

FLIR ResearchIR Max 4 in combination with a FLIR thermal imaging camera is the perfect solution for any R&D or scientific application. It will allow researchers in all fields to make the smallest of temperature differences visible and to thoroughly analyze the thermal process in real-time.

## Download

Download your copy of FLIR ResearchIR Max 4 here (hardware security device required to run the software):

<http://support.flir.com/rir4>

## Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• FLIR ResearchIR Max 4 download card.</li> <li>• Hardware security device.</li> </ul>
Packaging, weight	0.066 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558007266
UPC-12	845188007638
Country of origin	Sweden

## Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)

**P/N: T198696**

© 2015, FLIR Systems, Inc.  
#T198696; r. 24597; en-US

- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 42901-1001; FLIR A305sc
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens

**P/N: T198696**

© 2015, FLIR Systems, Inc.  
#T198696; r. 24597; en-US

- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

**P/N: T198697**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: T198697  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
FLIR ResearchIR Max + HSDR 4 contains all the features of FLIR ResearchIR Max 4, plus support for FLIR High Speed Data Recorder (HSDR) products.	
Main features:	
<ul style="list-style-type: none"> <li>• Pre/post-recording.</li> <li>• Mathematical processing toolbox.</li> <li>• Image filtering toolbox.</li> <li>• Radiometric digital detail enhancement (DDE) improves dramatically the understanding of the thermal image, while maintaining radiometric measurement accuracy.</li> <li>• View, record and store images at high speed.</li> <li>• Post-processing of fast thermal events.</li> <li>• Generate time-temperature plots from live images or recorded sequences.</li> <li>• Advanced start/stop recording conditions.</li> <li>• Unlimited number of analysis functions (spot, line, area).</li> <li>• File organizer.</li> <li>• Zoom and pan allows a closer look.</li> <li>• Multiple dockable objects for plots and statistics.</li> <li>• Export images and results to bitmap, video, Excel, MATLAB or CSV formats</li> <li>• Local scale gain control on measurement - automatically adjusts the contrast in a specific part of the image.</li> </ul>	
FLIR ResearchIR Max + HSDR 4 in combination with a FLIR thermal imaging camera is the perfect solution for any R&D or scientific application. It will allow researchers in all fields to make the smallest of temperature differences visible and to thoroughly analyze the thermal process in real-time.	
Download	
Download your copy of FLIR ResearchIR Max + HSDR 4 here (hardware security device required to run the software):	
<a href="http://support.flir.com/rir4">http://support.flir.com/rir4</a>	
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• FLIR ResearchIR Max + HSDR 4 download card.</li> <li>• Hardware security device.</li> </ul>
Packaging, weight	0.068 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558007280
UPC-12	845188007652
Country of origin	Sweden

## Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)

**P/N: T198697**

© 2015, FLIR Systems, Inc.  
#T198697; r. 24597; en-US

- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 42901-1001; FLIR A305sc
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens

**P/N: T198697**

© 2015, FLIR Systems, Inc.  
#T198697; r. 24597; en-US

- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: T199767

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T199767  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

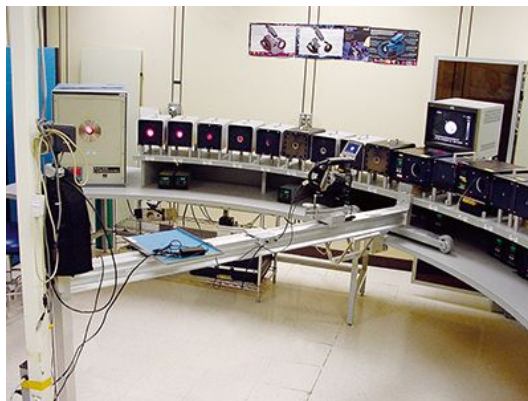
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

General Maintenance package offers a complete 14 points inspection and calibration service (for one lens combination). Shipping cost not included.

#### 14-point inspection program:

- Perform a complete operational check.
- Fusion calibration and laser alignment, when applicable.
- Verify all internal cable and PCB connections.
- Clean the viewfinder and check the optics.
- Upgrade the internal camera software to the latest revisions.
- Perform minor repairs.
- Verify and/or re-equalize as needed each temperature range for image uniformity.
- Verify standard lens calibration (optional: other or specially engineered lenses).
- Verify ambient temperature compensation as needed.
- Recalibration to ensure factory specifications are met.
- Calibrate temperature ranges up to +1500°C, when applicable.
- Perform a quality-approved acceptance test procedure.
- Provide a calibration label with the next due date.
- Provide a calibration certificate (optional: extended calibration certificate with measured values).

### Download

Contact info can be found at:

<http://support.flir.com>

### Compatible with the following products

- N/A

## P/N: ITC-ADV-3021

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3021  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This interdisciplinary course bridges the gap between IR thermography, background science and application theory. Being an overview course it deals with three main application fields of thermography: electrical, industrial, and building. For every application the participant will learn about the specific theory, typical faults, and how to detect them with a thermography camera. The student will also learn about the basics of condition monitoring, and maintenance.

Examples and case studies from the real world illustrate the course content and are discussed with the participants. Participants will be trained in discovering and identifying typical faults by typical thermal patterns.

### Content

- Introduction
- Electrical Applications (current, voltage, resistance, electrical systems, Ohm's law, some important properties of materials, typical faults, surveying methodology and criteria, safety, voltage limits)
- Industrial Applications (bearings, pumps, gears, belts, misalignment and couplings, gaskets, seals, rings, glands, steam traps, furnaces)
- Building Applications (definition of the building envelope, steady state thermal transfer in a building envelope, transient thermal transfer in a building envelope, applications)

### Course information

Available languages	
English	
Target group	<ul style="list-style-type: none"> <li>• Professional thermographers holding a Level 1 or a Level 2 certificate and</li> <li>• with interest in increasing their knowledge of different thermographic applications, and their limitations or</li> <li>• with a special interest in condition monitoring of machines</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Knows how to operate the camera</li> <li>• Knows how to report</li> <li>• Works in the industry with e.g. maintenance and condition monitoring or is a consultant</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Valid Level 1 thermography certificate</li> <li>• IR related education and experience</li> </ul>



**P/N: ITC-ADV-3021**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3021; r. 23306; en-US

Course details	
Duration	3 days (24 hours)
Structure	The course is divided into the three parts: Electrical Applications, Industrial Applications, and Building Applications. Theory sessions and case studies including interactive discussions alternate.
Exam	A final exam (30 multiple choice questions) will be written on the 3d day in the afternoon. In connection, the correct answers will be discussed by the instructor and the participants.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Attendance of 1 person</li> <li>• Might include more, such as lunch, depending on location and organizing entity</li> </ul>
Course organization	
ITC	The Advanced General Thermography Course is offered worldwide by ITC as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary.
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Advanced General Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)

**P/N: ITC-ADV-3021**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3021; r. 23306; en-US

- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC

---

**P/N: ITC-ADV-3021**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3021; r. 23306; en-US

- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-ADV-3029

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3029  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This interdisciplinary course bridges the gap between IR thermography, background science and application theory. Being an overview course it deals with three main application fields of thermography: electrical, industrial, and building. For every application the participant will learn about the specific theory, typical faults, and how to detect them with a thermography camera. The student will also learn about the basics of condition monitoring, and maintenance.

Examples and case studies from the real world illustrate the course content and are discussed with the participants. Participants will be trained in discovering and identifying typical faults by typical thermal patterns.

### Content

- Introduction
- Electrical Applications (current, voltage, resistance, electrical systems, Ohm's law, some important properties of materials, typical faults, surveying methodology and criteria, safety, voltage limits)
- Industrial Applications (bearings, pumps, gears, belts, misalignment and couplings, gaskets, seals, rings, glands, steam traps, furnaces)
- Building Applications (definition of the building envelope, steady state thermal transfer in a building envelope, transient thermal transfer in a building envelope, applications)

### Course information

Available languages	
English	
Target group	
<ul style="list-style-type: none"> <li>• Professional thermographers holding a Level 1 or a Level 2 certificate and</li> <li>• with interest in increasing their knowledge of different thermographic applications, and their limitations or</li> <li>• with a special interest in condition monitoring of machines</li> </ul>	
Typical student	
<ul style="list-style-type: none"> <li>• Knows how to operate the camera</li> <li>• Knows how to report</li> <li>• Works in the industry with e.g. maintenance and condition monitoring or is a consultant</li> </ul>	
Pre-requisites	
<ul style="list-style-type: none"> <li>• Valid Level 1 thermography certificate</li> <li>• IR related education and experience</li> </ul>	

**P/N: ITC-ADV-3029**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3029; r. 23306; en-US

Course details	
Duration	3 days (24 hours)
Structure	The course is divided into the three parts: Electrical Applications, Industrial Applications, and Building Applications. Theory sessions and case studies including interactive discussions alternate.
Exam	A final exam (30 multiple choice questions) will be written on the 3d day in the afternoon. In connection, the correct answers will be discussed by the instructor and the participants.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Attendance of a group up to 10 persons</li> <li>• Might include more, such as lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	The Advanced General Thermography Course is offered worldwide by ITC as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary.
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Advanced General Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)

**P/N: ITC-ADV-3029**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3029; r. 23306; en-US

- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL

**P/N: ITC-ADV-3029**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3029; r. 23306; en-US

- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-EXP-1021

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1021  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
An on-site training can be customized upon your needs. The participants will learn about IR thermography, inspections, measurements, applications, and reporting corresponding to the level needed for performing measurements and inspection in their working environment. The trainer will give useful advice on how to best implement IR thermography in your business.	
This partnumber is reserved for adding additional students to an on site class.	
Content	
<ul style="list-style-type: none"> <li>An on-site course can be any course, from a 1-day introduction to general thermography, over a customized application course to a complete certification course.</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Portable classroom labs</li> <li>Field training on the site in agreement with the customer</li> </ul>	
Course information	
Available languages	English, Dutch, German, French, Italian, Spanish, Swedish, other languages upon request
Target group	<ul style="list-style-type: none"> <li>Employees of a company or certain departments who would like to minimize travel costs and receive the training directly on their daily working site.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>
Course details	
Duration	Customized or according to the kind of course the in-house training is equivalent to.
Structure	Theory, camera handling, demos, practical labs and field training alternate.



**P/N: ITC-EXP-1021**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1021; r. 23306; en-US

Course details	
Exam	Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> </ul>
Course organization	
ITC	ITC In-house courses are offered worldwide by ITC and partners as listed. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	ITC In-house courses are lectured by ITC qualified instructors with experience in the relevant fields of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm

**P/N: ITC-EXP-1021**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1021; r. 23306; en-US

- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°

**P/N: ITC-EXP-1021**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1021; r. 23306; en-US

- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-1029

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1029  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
An on-site training can be customized upon your needs. The participants will learn about IR thermography, inspections, measurements, applications, and reporting corresponding to the level needed for performing measurements and inspection in their working environment. The trainer will give useful advice on how to best implement IR thermography in your business.	
Content	
<ul style="list-style-type: none"> <li>An on-site course can be any course, from a 1-day introduction to general thermography, over a customized application course to a complete certification course.</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Portable classroom labs</li> <li>Field training on the site in agreement with the customer</li> </ul>	
Course information	
Available languages	English, Dutch, German, French, Italian, Spanish, Swedish, other languages upon request
Target group	<ul style="list-style-type: none"> <li>Employees of a company or certain departments who would like to minimize travel costs and receive the training directly on their daily working site.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>
Course details	
Duration	Customized or according to the kind of course the in-house training is equivalent to.
Structure	Theory, camera handling, demos, practical labs and field training alternate.
Exam	Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.

**P/N: ITC-EXP-1029**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1029; r. 23306; en-US

Course details	
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> </ul>
Note	Course fee does not include cost for instructor's travelling or lodging. When organized at the customers' site, the customer is responsible for providing a suitable classroom and preferably also refreshments/lunch.
Course organization	
ITC	ITC In-house courses are offered worldwide by ITC and partners as listed. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	ITC In-house courses are lectured by ITC qualified instructors with experience in the relevant fields of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)

**P/N: ITC-EXP-1029**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1029; r. 23306; en-US

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL

**P/N: ITC-EXP-1029**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1029; r. 23306; en-US

- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-CER-5105

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5105  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 1 certified thermographer. The participant will learn about the basics of infrared, how to operate the camera under different conditions and for various purposes, how to do an appropriate judgement of the measurement situation in the field and how to identify potential error sources. After the class, the participant will be able to do IR inspections following written guidelines and to report the result of this inspection.

This partnumber is reserved for adding additional students to a level 1 on site class.

### Content

- Introduction to Thermography
- Camera Operation
- Basic physics of heat
- Basic physics of infrared
- Thermal pattern recognition and IR applications
- IR temperature measurement techniques
- Qualitative and quantitative thermography
- Inspection routines and reporting

### Student presentations

During the seminar, students will generate a small case study based on the lab exercises to be presented to the class.

### Labs

- Camera handling
- Level and Span
- Conduction pattern
- Forced convection
- Direct and indirect thermal measurement
- Thermal capacity
- Steady state and transient heat flow
- Evaporation and condensation
- Electrical application
- Emissivity and Reflected apparent temperature
- Spatial resolution
- Location and temperature measurement of a hot/cold spot
- Image transfer to the computer



**P/N: ITC-CER-5105**

© 2015, FLIR Systems, Inc.

#ITC-CER-5105; r. 23306; en-US

Course information	
Available languages	Chinese, Danish, Dutch, English, Finish, French, German, Greek, Hebrew, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (bra.), Romanian, Russian, Serbo-Croatian, Spanish, Swedish, Thai
Target group	<ul style="list-style-type: none"> <li>• Practical user</li> <li>• This course is designed for beginners in thermography with some experience in camera handling and limited IR knowledge, who want to take their first step to become a professional thermographer and want to qualify as a Level 1 certified thermographer.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>• having already some basic experience with IR thermography,</li> <li>• knowing the basic functions of the camera,</li> <li>• who wants to become a certified thermographer in order to gain a competitive advantage or who needs the certifications because of legal reasons or company internal regulations.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Be familiar with the basic operation of an infrared camera</li> <li>• Have the recommended experience within thermography according to relevant standards</li> </ul>

Course details	
Duration	35 – 40 hours
Structure	Theory and camera practice (hands-on) alternate every day, additional labs and software exercises at some days.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>• Attendance of 1 person</li> <li>• Might include more, such as lunch, depending on location and organizing entity</li> </ul>
Note	Only for non-EURO, non-SEK, non NOK, non- £, -non CHF countries

Course organization	
ITC	The Level 1 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)

**P/N: ITC-CER-5105**

© 2015, FLIR Systems, Inc.

#ITC-CER-5105; r. 23306; en-US

- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc

**P/N: ITC-CER-5105**

© 2015, FLIR Systems, Inc.

#ITC-CER-5105; r. 23306; en-US

- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-CER-5101

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5101  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 1 certified thermographer. The participant will learn about the basics of infrared, how to operate the camera under different conditions and for various purposes, how to do an appropriate judgement of the measurement situation in the field and how to identify potential error sources. After the class, the participant will be able to do IR inspections following written guidelines and to report the result of this inspection.

### Content

- Introduction to Thermography
- Camera Operation
- Basic physics of heat
- Basic physics of infrared
- Thermal pattern recognition and IR applications
- IR temperature measurement techniques
- Qualitative and quantitative thermography
- Inspection routines and reporting

### Student presentations

During the seminar, students will generate a small case study based on the lab exercises to be presented to the class.

### Labs

- Camera handling
- Level and Span
- Conduction pattern
- Forced convection
- Direct and indirect thermal measurement
- Thermal capacity
- Steady state and transient heat flow
- Evaporation and condensation
- Electrical application
- Emissivity and Reflected apparent temperature
- Spatial resolution
- Location and temperature measurement of a hot/cold spot
- Image transfer to the computer

**P/N: ITC-CER-5101**

© 2015, FLIR Systems, Inc.

#ITC-CER-5101; r. 23306; en-US

Course information	
Available languages	Chinese, Danish, Dutch, English, Finish, French, German, Greek, Hebrew, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (bra.), Romanian, Russian, Serbo-Croatian, Spanish, Swedish, Thai
Target group	<ul style="list-style-type: none"> <li>Practical user</li> <li>This course is designed for beginners in thermography with some experience in camera handling and limited IR knowledge, who want to take their first step to become a professional thermographer and want to qualify as a Level 1 certified thermographer.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>having already some basic experience with IR thermography,</li> <li>knowing the basic functions of the camera,</li> <li>who wants to become a certified thermographer in order to gain a competitive advantage or who needs the certifications because of legal reasons or company internal regulations.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Be familiar with the basic operation of an infrared camera</li> <li>Have the recommended experience within thermography according to relevant standards</li> </ul>

Course details	
Duration	35 – 40 hours
Structure	Theory and camera practice (hands-on) alternate every day, additional labs and software exercises at some days.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>Attendance of 1 person</li> <li>Might include more, such as lunch, depending on location and organizing entity</li> </ul>

Course organization	
ITC	The Level 1 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)

**P/N: ITC-CER-5101**

© 2015, FLIR Systems, Inc.

#ITC-CER-5101; r. 23306; en-US

- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)

**P/N: ITC-CER-5101**

© 2015, FLIR Systems, Inc.

#ITC-CER-5101; r. 23306; en-US

- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-CER-5109

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5109  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 1 certified thermographer. The participant will learn about the basics of infrared, how to operate the camera under different conditions and for various purposes, how to do an appropriate judgement of the measurement situation in the field and how to identify potential error sources. After the class, the participant will be able to do IR inspections following written guidelines and to report the result of this inspection.

### Content

- Introduction to Thermography
- Camera Operation
- Basic physics of heat
- Basic physics of infrared
- Thermal pattern recognition and IR applications
- IR temperature measurement techniques
- Qualitative and quantitative thermography
- Inspection routines and reporting

### Student presentations

During the seminar, students will generate a small case study based on the lab exercises to be presented to the class.

### Labs

- Camera handling
- Level and Span
- Conduction pattern
- Forced convection
- Direct and indirect thermal measurement
- Thermal capacity
- Steady state and transient heat flow
- Evaporation and condensation
- Electrical application
- Emissivity and Reflected apparent temperature
- Spatial resolution
- Location and temperature measurement of a hot/cold spot
- Image transfer to the computer



**P/N: ITC-CER-5109**

© 2015, FLIR Systems, Inc.

#ITC-CER-5109; r. 23306; en-US

Course information	
Available languages	Chinese, Danish, Dutch, English, Finish, French, German, Greek, Hebrew, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (bra.), Romanian, Russian, Serbo-Croatian, Spanish, Swedish, Thai
Target group	<ul style="list-style-type: none"> <li>• Practical user</li> <li>• This course is designed for beginners in thermography with some experience in camera handling and limited IR knowledge, who want to take their first step to become a professional thermographer and want to qualify as a Level 1 certified thermographer.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>• having already some basic experience with IR thermography,</li> <li>• knowing the basic functions of the camera,</li> <li>• who wants to become a certified thermographer in order to gain a competitive advantage or who needs the certifications because of legal reasons or company internal regulations.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Be familiar with the basic operation of an infrared camera</li> <li>• Have the recommended experience within thermography according to relevant standards</li> </ul>

Course details	
Duration	35 – 40 hours
Structure	Theory and camera practice (hands-on) alternate every day, additional labs and software exercises at some days.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>• Attendance of a group up to 10 persons</li> <li>• Might include more, such as lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>

Course organization	
ITC	The Level 1 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)

**P/N: ITC-CER-5109**

© 2015, FLIR Systems, Inc.

#ITC-CER-5109; r. 23306; en-US

- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310

**P/N: ITC-CER-5109**

© 2015, FLIR Systems, Inc.

#ITC-CER-5109; r. 23306; en-US

- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-CER-5205

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5205  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 2 certified thermographer. The participant will learn about topics in infrared thermography to increase the knowledge about infrared physics, heat science, infrared measurement equipment and its application. As a Level 2 thermographer the participant shall provide guidance to category 1 personnel in the areas of equipment selection, techniques, limitations, data analysis, corrective actions and reporting.

This partnumber is reserved for adding additional students to a level 2 on site class.

### Content

- Thermal science
- Heat transfer
- Temperature measurement
- Infrared science
- IR equipment and applications

### Student presentations

During the seminar, students shall present a prepared case study to the class. The maximum duration (excl. discussion) should be 7 minutes and the maximum number of 7 slides should not be exceeded.

### Labs (Note: Labs marked "(M)" are mandatory)

- Newton's law (class lab) (M)
- Advanced emissivity measurement (M)
- Variation of emissivity with the angle (M)
- Transient thermal transfer
- Indirect power measurement (M)
- IR-window transmission (M)
- Slit Response Function
- Hole Response Function (M)
- Parallel circuits

### Course information

Available languages	Dutch, English, German, French, Italian, Portuguese (bra.), Spanish, Swedish
Target group	<ul style="list-style-type: none"> <li>• Professional user</li> <li>• This course is designed for thermographers holding a Level 1 certificate, who want to increase their knowledge about IR thermography and who want to qualify as a Level 2 certified thermographer.</li> </ul>

**P/N: ITC-CER-5205**

© 2015, FLIR Systems, Inc.

#ITC-CER-5205; r. 23306; en-US

Course information	
Typical student	<ul style="list-style-type: none"> <li>A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>having several months of professional experience within thermography,</li> <li>versed in camera operation and reporting,</li> <li>holding a Level 1 certificate,</li> <li>who needs the Level 2 Certification for guidance and supervision of other thermographers or is interested in deeper understanding of IR thermography.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Valid Level 1 thermography certificate,</li> <li>Recommended experience within thermography according to relevant standards,</li> <li>Prepared case study to be presented at the Level 2 course and submitted towards qualification at course closing.</li> </ul>

Course details	
Duration	40 hours
Structure	Theory, camera practice (hands-on), and prepared case studies alternate every day.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>Attendance of 1 person</li> <li>Might include more, such as lunch, depending on location and organizing entity.</li> </ul>
Note	Only for non-EURO, non-SEK, non NOK, non- £, -non CHF countries

Course organization	
ITC	The Level 2 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in T560393 Courses offered by ITC partners. Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)

**P/N: ITC-CER-5205**

© 2015, FLIR Systems, Inc.

#ITC-CER-5205; r. 23306; en-US

- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°

**P/N: ITC-CER-5205**

© 2015, FLIR Systems, Inc.

#ITC-CER-5205; r. 23306; en-US

- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-CER-5201

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5201  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 2 certified thermographer. The participant will learn about topics in infrared thermography to increase the knowledge about infrared physics, heat science, infrared measurement equipment and its application. As a Level 2 thermographer the participant shall provide guidance to category 1 personnel in the areas of equipment selection, techniques, limitations, data analysis, corrective actions and reporting.

### Content

- Thermal science
- Heat transfer
- Temperature measurement
- Infrared science
- IR equipment and applications

### Student presentations

During the seminar, students shall present a prepared case study to the class. The maximum duration (excl. discussion) should be 7 minutes and the maximum number of 7 slides should not be exceeded.

### Labs (Note: Labs marked "(M)" are mandatory)

- Newton's law (class lab) (M)
- Advanced emissivity measurement (M)
- Variation of emissivity with the angle (M)
- Transient thermal transfer
- Indirect power measurement (M)
- IR-window transmission (M)
- Slit Response Function
- Hole Response Function (M)
- Parallel circuits

### Course information

Available languages	Dutch, English, German, French, Italian, Portuguese (bra.), Spanish, Swedish
Target group	<ul style="list-style-type: none"> <li>• Professional user</li> <li>• This course is designed for thermographers holding a Level 1 certificate, who want to increase their knowledge about IR thermography and who want to qualify as a Level 2 certified thermographer.</li> </ul>



**P/N: ITC-CER-5201**

© 2015, FLIR Systems, Inc.

#ITC-CER-5201; r. 23306; en-US

Course information	
Typical student	<ul style="list-style-type: none"> <li>A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>having several months of professional experience within thermography,</li> <li>versed in camera operation and reporting,</li> <li>holding a Level 1 certificate,</li> <li>who needs the Level 2 Certification for guidance and supervision of other thermographers or is interested in deeper understanding of IR thermography.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Valid Level 1 thermography certificate,</li> <li>Recommended experience within thermography according to relevant standards,</li> <li>Prepared case study to be presented at the Level 2 course and submitted towards qualification at course closing.</li> </ul>
Course details	
Duration	40 hours
Structure	Theory, camera practice (hands-on), and prepared case studies alternate every day.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>Attendance of 1 person</li> <li>Might include more, such as lunch, depending on location and organizing entity.</li> </ul>
Course organization	
ITC	The Level 2 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in T560393 Courses offered by ITC partners. Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)

**P/N: ITC-CER-5201**

© 2015, FLIR Systems, Inc.

#ITC-CER-5201; r. 23306; en-US

- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°

**P/N: ITC-CER-5201**

© 2015, FLIR Systems, Inc.

#ITC-CER-5201; r. 23306; en-US

- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-CER-5209

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5209  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 2 certified thermographer. The participant will learn about topics in infrared thermography to increase the knowledge about infrared physics, heat science, infrared measurement equipment and its application. As a Level 2 thermographer the participant shall provide guidance to category 1 personnel in the areas of equipment selection, techniques, limitations, data analysis, corrective actions and reporting.

### Content

- Thermal science
- Heat transfer
- Temperature measurement
- Infrared science
- IR equipment and applications

### Student presentations

During the seminar, students shall present a prepared case study to the class. The maximum duration (excl. discussion) should be 7 minutes and the maximum number of 7 slides should not be exceeded.

### Labs (Note: Labs marked "(M)" are mandatory)

- Newton's law (class lab) (M)
- Advanced emissivity measurement (M)
- Variation of emissivity with the angle (M)
- Transient thermal transfer
- Indirect power measurement (M)
- IR-window transmission (M)
- Slit Response Function
- Hole Response Function (M)
- Parallel circuits

### Course information

#### Available languages

Dutch, English, German, French, Italian, Portuguese (bra.), Spanish, Swedish

#### Target group

- Professional user
- This course is designed for thermographers holding a Level 1 certificate, who want to increase their knowledge about IR thermography and who want to qualify as a Level 2 certified thermographer.

**P/N: ITC-CER-5209**

© 2015, FLIR Systems, Inc.

#ITC-CER-5209; r. 23306; en-US

Course information	
Typical student	<ul style="list-style-type: none"> <li>A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>having several months of professional experience within thermography,</li> <li>versed in camera operation and reporting,</li> <li>holding a Level 1 certificate,</li> <li>who needs the Level 2 Certification for guidance and supervision of other thermographers or is interested in deeper understanding of IR thermography.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Valid Level 1 thermography certificate,</li> <li>Recommended experience within thermography according to relevant standards,</li> <li>Prepared case study to be presented at the Level 2 course and submitted towards qualification at course closing.</li> </ul>
Course details	
Duration	40 hours
Structure	Theory, camera practice (hands-on), and prepared case studies alternate every day.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as lunch, instructor's travel expenses, etc. depending on location and organizing entity.</li> </ul>
Course organization	
ITC	The Level 2 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in T560393 Courses offered by ITC partners. Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)

**P/N: ITC-CER-5209**

© 2015, FLIR Systems, Inc.

#ITC-CER-5209; r. 23306; en-US

- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°

**P/N: ITC-CER-5209**

© 2015, FLIR Systems, Inc.

#ITC-CER-5209; r. 23306; en-US

- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-PRA-2011

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-PRA-2011  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

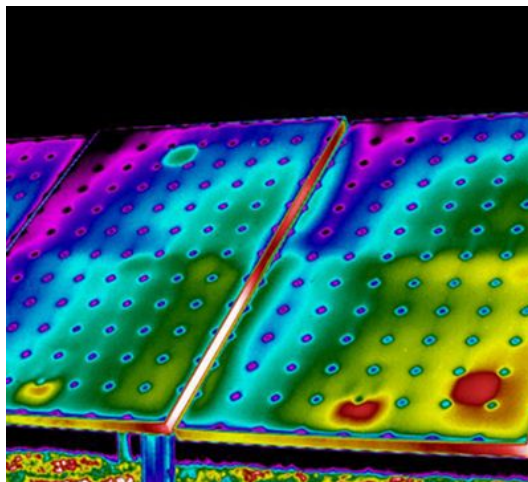
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course gives a general introduction to IR thermography and an overview on its specific use for inspections of photovoltaic solar systems.

During the first day, you learn about the basics of thermography, how a thermal camera works, and how to use it correctly. The second day starts with the basics of photovoltaic solar systems and solar panel installations. You learn about IR metrological particularities that are critical for solar panel inspections with a thermal camera, how to interpret the displayed thermal images, and in which way they can be associated to typical problems and faults. Emphasis is put on case studies, selected from the field, as well as practical exercises.

### Content

- Basics of thermography (radiation, spectral waveband, influences of the atmosphere)
- IR camera: principle, design and operation (FPA, measurement ranges, thermal tuning: level and span, color palettes)
- IR measurement technique: measurement parameters (emissivity, radiation from the environment, distance, relative humidity, atmospheric temperature)
- IR Camera figures of merit: resolution limits (thermal, spatial, time related)
- Practical exercises
- Basics of photovoltaic solar systems (terminology, design, principle of operation, module types)
- Solar panel installation: connection types (string, bypass diodes, shadowing)
- IR metrological particularity (spectral bands, inspection conditions, spatial resolution, camera positioning and angle)
- Typical thermal readouts (examples, causes and interpretation – defect/no defect, practical exercises)

### Course information

Available languages	English, French, German, Swedish, Italian, Dutch, Spanish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in the use of IR thermography for the inspection of photovoltaic solar systems.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person working with maintenance or installation of solar panels.</li> <li>• Thermographers familiar with electrical inspections and interested in solar panel inspections.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic knowledge in electrical installations or another technical field.</li> </ul>

### Course details

Duration	2 days
Structure	Theory, camera handling, demos and practical labs alternate.



**P/N: ITC-PRA-2011**

© 2015, FLIR Systems, Inc.

#ITC-PRA-2011; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by qualified ITC instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Might include more, such as lunch, depending on location</li> </ul>
Course organization	
ITC	The "ITC Practical Course Solar panel inspection" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC or ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Practical Course Solar panel inspection" is lectured by qualified ITC instructors with special experience in the field of solar panel installations.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5



**P/N: ITC-PRA-2011**

© 2015, FLIR Systems, Inc.

#ITC-PRA-2011; r. 23306; en-US

- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-PRA-2019

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-PRA-2019  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

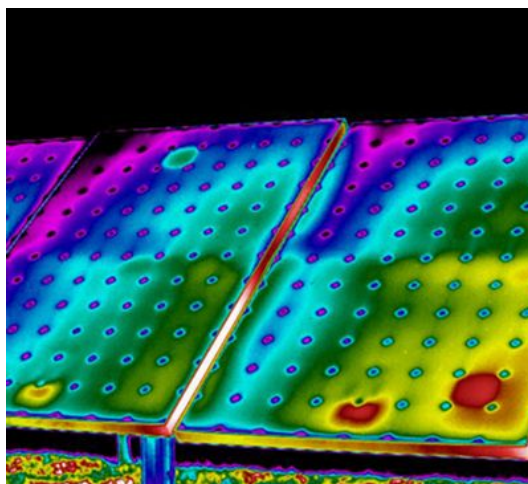
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course gives a general introduction to IR thermography and an overview on its specific use for inspections of photovoltaic solar systems.

During the first day, you learn about the basics of thermography, how a thermal camera works, and how to use it correctly. The second day starts with the basics of photovoltaic solar systems and solar panel installations. You learn about IR metrological particularities that are critical for solar panel inspections with a thermal camera, how to interpret the displayed thermal images, and in which way they can be associated to typical problems and faults. Emphasis is put on case studies, selected from the field, as well as practical exercises.

### Content

- Basics of thermography (radiation, spectral waveband, influences of the atmosphere)
- IR camera: principle, design and operation (FPA, measurement ranges, thermal tuning: level and span, color palettes)
- IR measurement technique: measurement parameters (emissivity, radiation from the environment, distance, relative humidity, atmospheric temperature)
- IR Camera figures of merit: resolution limits (thermal, spatial, time related)
- Practical exercises
- Basics of photovoltaic solar systems (terminology, design, principle of operation, module types)
- Solar panel installation: connection types (string, bypass diodes, shadowing)
- IR metrological particularity (spectral bands, inspection conditions, spatial resolution, camera positioning and angle)
- Typical thermal readouts (examples, causes and interpretation – defect/no defect, practical exercises)

### Course information

Available languages	English, French, German, Swedish, Italian, Dutch, Spanish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in the use of IR thermography for the inspection of photovoltaic solar systems.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person working with maintenance or installation of solar panels.</li> <li>• Thermographers familiar with electrical inspections and interested in solar panel inspections.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic knowledge in electrical installations or another technical field.</li> </ul>

### Course details

Duration	2 days
Structure	Theory, camera handling, demos and practical labs alternate.
Exam	None

**P/N: ITC-PRA-2019**

© 2015, FLIR Systems, Inc.

#ITC-PRA-2019; r. 23306; en-US

Course details	
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by qualified ITC instructor</li> <li>• Training material in printed format</li> <li>• Diploma of attendance</li> <li>• Attendance of a group up to 10 persons</li> <li>• Might include more, such as refreshments or lunch, depending on location.</li> </ul>
Note	Course fee does not include cost for instructor's travelling or lodging.
Course organization	
ITC	The "ITC Practical Course Solar panel inspection" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC or ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Practical Course Solar panel inspection" is lectured by qualified ITC instructors with special experience in the field of solar panel installations.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3



---

**P/N: ITC-PRA-2019**

© 2015, FLIR Systems, Inc.

#ITC-PRA-2019; r. 23306; en-US

- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-2041

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2041  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course gives a general introduction to IR thermography and an overview on its specific use for inspections of electrical systems. It aims at giving you clues on what you can do with your camera.

During the first day, you learn the basics of thermography and how to use your camera the best way. The second day you will start with a brief reminder of thermal transfers before you learn about electrical systems and components, material properties, typical problems and faults. Emphasis is put on case studies, selected from the field.

### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- IR Camera handling
- Basics of heat transfer
- Electrical systems
- Important properties of material
- Most common problems
- Case studies
- Common mistakes
- Application guidelines
- Data analysis and reports

### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement
- Electrical application labs

### Course information

Available languages	English, French, German, Swedish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in IR thermography and electrical applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person working with maintenance or installation of electrical systems</li> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> <li>• Students and pupils with thermography and electrical application related projects</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>

**P/N: ITC-EXP-2041**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2041; r. 23306; en-US

Course details	
Duration	2 days
Structure	Theory, camera handling, demos and practical labs alternate.
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by qualified ITC instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Might include more, such as lunch, depending on location</li> </ul>
Course organization	
ITC	The "ITC Short Course Electrical Thermography" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Electrical Thermography" is lectured by qualified ITC instructors with special experience in the field of electrical installations.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)



---

**P/N: ITC-EXP-2041**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2041; r. 23306; en-US

- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display



## P/N: ITC-EXP-2049

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2049  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course gives a general introduction to IR thermography and an overview on its specific use for inspections of electrical systems. It aims at giving you clues on what you can do with your camera.

During the first day, you learn the basics of thermography and how to use your camera the best way. The second day you will start with a brief reminder of thermal transfers before you learn about electrical systems and components, material properties, typical problems and faults. Emphasis is put on case studies, selected from the field.

### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- IR Camera handling
- Basics of heat transfer
- Electrical systems
- Important properties of material
- Most common problems
- Case studies
- Common mistakes
- Application guidelines
- Data analysis and reports

### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement
- Electrical application labs

### Course information

Available languages	English, French, German, Swedish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in IR thermography and electrical applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person working with maintenance or installation of electrical systems</li> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> <li>• Students and pupils with thermography and electrical application related projects</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>

**P/N: ITC-EXP-2049**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2049; r. 23306; en-US

Course details	
Duration	2 days
Structure	Theory, camera handling, demos and practical labs alternate.
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by qualified ITC instructor</li> <li>• Training material in printed format</li> <li>• Diploma of attendance</li> <li>• Attendance of a group up to 10 persons</li> <li>• Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	The "ITC Short Course Electrical Thermography" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Electrical Thermography" is lectured by qualified ITC instructors with special experience in the field of electrical installations.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)



---

**P/N: ITC-EXP-2049**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2049; r. 23306; en-US

- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-1019

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1019  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This is a full one day course for beginners and everybody interested in IR thermography and its applications. The course covers the basics of IR theory and includes demos, camera hand-on and practical exercises using relevant key labs.

### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- Introduction to electrical and building inspections
- IR Camera handling
- Data analysis and reports

### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement

### Course information

Available languages	English, French, German, Swedish, Danish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in IR thermography and its applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> <li>• A person who starts to use IR cameras at work</li> <li>• Students and pupils with thermography related projects</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>

### Course details

Duration	1 day
Structure	Theory, camera handling and demos in the morning. Practical labs in the afternoon.

**P/N: ITC-EXP-1019**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1019; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	The "ITC Short Course Introduction to Thermography" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Introduction to Thermography" is lectured by qualified ITC instructors with long time experience in the various fields of thermography.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)

**P/N: ITC-EXP-1019**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1019; r. 23306; en-US

- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC



---

**P/N: ITC-EXP-1019**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1019; r. 23306; en-US

- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-1011

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1011  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This is a full one day course for beginners and everybody interested in IR thermography and its applications. The course covers the basics of IR theory and includes demos, camera hand-on and practical exercises using relevant key labs.

### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- Introduction to electrical and building inspections
- IR Camera handling
- Data analysis and reports

### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement

### Course information

Available languages	English, French, German, Swedish, Danish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in IR thermography and its applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> <li>• A person who starts to use IR cameras at work</li> <li>• Students and pupils with thermography related projects</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>

### Course details

Duration	1 day
Structure	Theory, camera handling and demos in the morning. Practical labs in the afternoon.



**P/N: ITC-EXP-1011**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1011; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>
Course organization	
ITC	The "ITC Short Course Introduction to Thermography" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Introduction to Thermography" is lectured by qualified ITC instructors with long time experience in the various fields of thermography.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)

**P/N: ITC-EXP-1011**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1011; r. 23306; en-US

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL

---

**P/N: ITC-EXP-1011**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1011; r. 23306; en-US

- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-SOW-0001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-SOW-0001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

These courses are for users of FLIR software like FLIR Reporter Professional or FLIR ResearchIR. Please observe that content and labs depend on the software used.

#### Content

- System requirements
- Configuration
- Analyzing functions
- Templates
- Reporting functions
- Data exchange

#### Labs

- System set up
- Data import
- Data analysis
- Creating templates
- Creating reports
- Exporting data
- Triggering

### Course information

Available languages	English, French, German, other languages upon request
Target group	<ul style="list-style-type: none"> <li>• Persons interested in, or users, of the specific software.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Consultants interested in reporting</li> <li>• Building inspectors with reporting needs</li> <li>• R&amp;D staff interested in advanced data analysis</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Laptop with installed software full version or 30 day demo (download on <a href="http://www.flir.com">www.flir.com</a>)</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic knowledge about thermography and related parameters.</li> </ul>

### Course details

Duration	Depends on software.
Structure	Short system introduction, then demos and practical exercises.

**P/N: ITC-SOW-0001**

© 2015, FLIR Systems, Inc.  
#ITC-SOW-0001; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>
Course organization	
ITC	Software courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Software courses are lectured by ITC qualified instructors experienced in usage of the software being subject of the class.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)

**P/N: ITC-SOW-0001**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0001; r. 23306; en-US

- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°

**P/N: ITC-SOW-0001**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0001; r. 23306; en-US

- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-SOW-0009

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-SOW-0009  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
These courses are for users of FLIR software like FLIR Reporter Professional or FLIR ResearchIR. Please observe that content and labs depend on the software used.	
Content	
<ul style="list-style-type: none"> <li>• System requirements</li> <li>• Configuration</li> <li>• Analyzing functions</li> <li>• Templates</li> <li>• Reporting functions</li> <li>• Data exchange</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>• System set up</li> <li>• Data import</li> <li>• Data analysis</li> <li>• Creating templates</li> <li>• Creating reports</li> <li>• Exporting data</li> <li>• Triggering</li> </ul>	
Course information	
Available languages	English, French, German, other languages upon request
Target group	<ul style="list-style-type: none"> <li>• Persons interested in, or users, of the specific software.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Consultants interested in reporting</li> <li>• Building inspectors with reporting needs</li> <li>• R&amp;D staff interested in advanced data analysis</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Laptop with installed software full version or 30 day demo (download on <a href="http://www.flir.com">www.flir.com</a>)</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic knowledge about thermography and related parameters.</li> </ul>
Course details	
Duration	Depends on software.
Structure	Short system introduction, then demos and practical exercises.



**P/N: ITC-SOW-0009**

© 2015, FLIR Systems, Inc.  
#ITC-SOW-0009; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	Software courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Software courses are lectured by ITC qualified instructors experienced in usage of the software being subject of the class.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm

**P/N: ITC-SOW-0009**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0009; r. 23306; en-US

- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°

**P/N: ITC-SOW-0009**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0009; r. 23306; en-US

- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-1001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	1 day
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-1001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1001; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-1001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1001; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-1001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1001; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-1009

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1009  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	1 day
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>



**P/N: ITC-EXP-1009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1009; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-1009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1009; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-1009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1009; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-2001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	2 days
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-2001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2001; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-2001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2001; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-2001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2001; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-2009

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2009  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	2 days
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>



**P/N: ITC-EXP-2009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2009; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-2009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2009; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-2009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2009; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-3001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-3001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	3 days
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-3001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3001; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-3001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3001; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-3001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3001; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-3009

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-3009  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	3 days
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>



**P/N: ITC-EXP-3009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3009; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-3009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3009; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-3009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3009; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## **Accessories for FLIR bxx (discontinued camera series)**

---

## P/N: 19250-100

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 19250-100  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This device is a viewport which consist of a crystal "glass" window, mounted in an aluminum frame. The glass is specially formulated to allow transmission of infrared light to allow use of infrared thermal sensing equipment without opening the enclosure. This device is intended for installation in doors or walls of electrical enclosures without compromising the integrity of the enclosure.	
Power system	
Voltage	Any range
Environmental data	
Environment	Indoor/outdoor type 4/12
Operating temperature range	Maximum: 260°C (500°F)
Storage temperature range	Optics, maximum: 1357°C (2474°F)
Physical data	
Size (L x W x H)	25.5 x 73 x 86 mm (1.0 x 2.87 x 3.36 in.)
Viewing aperture diameter	45 mm (1.77 in.)
Material	Optics: CaF2 (Calcium Fluoride Crystal) Body: Anodized aluminum Hardware: steel
Comments to physical data	Required hole diameter, nominal: 60.3 mm (2.375 in.) Greenlee Punch: 76BB Maximum pullout strength: 658 kg (1450 lb.)
Lens	
Waveband	Broadband IR: short-, mid-, and longwave
Visible light spectrum	Yes
Certifications	
Certification	UL, IP67, NEMA Type 4/12, CSA
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>IR window</li> <li>Case</li> <li>Mounting instruction</li> <li>Additional safety screw</li> </ul>
Packaging, weight	0.24 kg (0.53 lb.)
Packaging, size	120 x 115 x 40 mm (4.7 x 4.5 x 1.6 in.)
EAN-13	4743254000728
UPC-12	845188002817
Country of origin	Estonia



IR Window 2 in

---

**P/N: 19250-100**

© 2015, FLIR Systems, Inc.  
#19250-100; r. 23306; en-US

**Supplies & accessories:**

## P/N: 19251-100

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 19251-100  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This device is a viewport which consist of a crystal "glass" window, mounted in an aluminum frame. The glass is specially formulated to allow transmission of infrared light to allow use of infrared thermal sensing equipment without opening the enclosure. This device is intended for installation in doors or walls of electrical enclosures without compromising the integrity of the enclosure.	
Power system	
Voltage	Any range
Environmental data	
Environment	Indoor/outdoor type 4/12
Operating temperature range	Maximum: 260°C (500°F)
Storage temperature range	Optics, maximum: 1357°C (2474°F)
Physical data	
Size (L × W × H)	26.9 × 99 × 107 mm (1.05 × 3.89 × 4.22 in.)
Viewing aperture diameter	69 mm (2.71 in.)
Material	Optics: CaF <sub>2</sub> (Calcium Fluoride Crystal) Body: Anodized aluminum Hardware: steel
Comments to physical data	Required hole diameter, nominal: 88.9 mm (3.5 in.) Greenlee Punch: 739BB Maximum pullout strength: 1656 kg (3650 lb.)
Lens	
Waveband	Broadband IR: short-, mid-, and longwave
Visible light spectrum	Yes
Certifications	
Certification	UL, IP67, NEMA Type 4/12, CSA
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>IR window</li> <li>Case</li> <li>Mounting instruction</li> <li>Additional safety screw</li> </ul>
Packaging, weight	0.39 kg (0.86 lb.)
Packaging, size	130 × 140 × 40 mm (5.12 × 5.51 × 1.58 in.)
EAN-13	4743254000735
UPC-12	845188002824
Country of origin	Estonia



IR Window 3 in.

---

**P/N: 19251-100**

© 2015, FLIR Systems, Inc.  
#19251-100; r. 23306; en-US

**Supplies & accessories:**



## P/N: 19252-100

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 19252-100  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This device is a viewport which consist of a crystal "glass" window, mounted in an aluminum frame. The glass is specially formulated to allow transmission of infrared light to allow use of infrared thermal sensing equipment without opening the enclosure. This device is intended for installation in doors or walls of electrical enclosures without compromising the integrity of the enclosure.	
Power system	
Voltage	Any range
Environmental data	
Environment	Indoor/outdoor type 4/12
Operating temperature range	Maximum: 260°C (500°F)
Storage temperature range	Optics, maximum: 1357°C (2474°F)
Physical data	
Size (L x W x H)	29.3 x 127 x 137 mm (1.15 x 5.01 x 5.37 in.)
Viewing aperture diameter	89 mm (3.50 in.)
Material	Optics: CaF <sub>2</sub> (Calcium Fluoride Crystal) Body: Anodized aluminum Hardware: steel
Comments to physical data	Required hole diameter, nominal: 114.3 mm (4.5 in.) Greenlee Punch: 742BB Maximum pullout strength: 1678 kg (3700 lb.)
Lens	
Waveband	Broadband IR: short-, mid-, and longwave
Visible light spectrum	Yes
Certifications	
Certification	UL, IP67, NEMA Type 4/12, CSA
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>IR window</li> <li>Case</li> <li>Mounting instruction</li> <li>Additional safety screw</li> </ul>
Packaging, weight	0.46 kg (1.01 lb.)
Packaging, size	165 x 175 x 40 mm (6.50 x 6.89 x 1.58 in.)
EAN-13	4743254000742
UPC-12	845188002831
Country of origin	Estonia



IR Window 4 in.

---

**P/N: 19252-100**

© 2015, FLIR Systems, Inc.  
#19252-100; r. 23306; en-US

**Supplies & accessories:**

## P/N: 1196398ACC

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1196398ACC  
Commit: 23871  
Language: en-US  
Modified: 2015-03-10 13:36  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
High capacity battery for the IR camera.	
Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	7.2 V
Battery capacity	2.2 Ah, at +20°C (+68°F)
Battery note	Approximate lithium content: 1.0 g
Charging time	2.5 h to 95% capacity, charging status indicated by LEDs
Charging temperature	0°C to +45°C (+32°F to +113°F)
Environmental data	
Battery storage temperature range	-40°C to +70°C (-40°F to +158°F)
Physical data	
Battery weight	0.12 kg (0.26 lb.)
Size (L x W x H)	92 x 41 x 26 mm (3.6 x 1.6 x 1.0 in.)
Shipping information	
Packaging, type	Cardboard box
List of contents	• Battery
Packaging, weight	0.21 kg (0.46 lb.)
Packaging, size	183 x 136 x 63 mm (7.2 x 5.4 x 2.5 in.)
EAN-13	7332558007921
UPC-12	845188008284
Country of origin	Sweden

### Compatible with the following products

- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)

## P/N: T198509

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198509  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This cable is used to power the infrared camera from the cigarette lighter socket in a car.	
Note: This is the same product as p/n 1196497.	
Physical data	
Cable length	1.2 m (3.9 ft).
Shipping information	
Packaging, type	Cardboard box
Packaging, weight	0.125 kg (0.28 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558004340 4743254001435 (Estonia plant)
UPC-12	845188004361
Country of origin	Sweden

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)

**P/N: T198509**

© 2015, FLIR Systems, Inc.  
#T198509; r. 23306; en-US

- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72201-0106; FLIR K45
- 72201-0206; FLIR K55

## P/N: T197667

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197667  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
A complete battery package consisting of three standard products	
Shipping information	
List of contents	<ul style="list-style-type: none"> <li>T197648 Battery kit, see 1196398 - Battery for specifications</li> <li>T197650 2-bay charger kit incl Power supply</li> <li>T197649 12 VDC Connection cable kit, see 1196497 - 12 VDC connection cable for specifications</li> </ul>
EAN-13	7332558009307
UPC-12	845188009830
Country of origin	Sweden

### Compatible with the following products

- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)

### P/N: T197650

#### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

#### Document identity

Publ. No.: T197650  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

#### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

#### Website

<http://www.flir.com>

#### Customer support

<http://support.flir.com>

#### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Stand-alone 2-bay battery charger, including power supply with multi plugs.	
Power system	
AC operation	100–240 VAC, 50/60 Hz, 12 VDC out
Power	2000 mA at 12 VDC
Physical data	
Battery charger size (L × W × H)	80 × 98 × 47 mm (3.2 × 3.9 × 1.8 in.), without battery
Cable length	1.98 m (6.5 ft.)
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Stand-alone 2-bay battery charger</li> <li>• Power supply including cable</li> <li>• EU plug</li> <li>• UK plug</li> <li>• US plug</li> <li>• AU plug</li> </ul>
Packaging, weight	0.542 kg (1.2 lb.)
Packaging, size	243 × 165 × 82 mm (9.6 × 6.5 × 3.2 in.)
EAN-13	7332558007914
UPC-12	845188002657
Country of origin	Sweden

#### Compatible with the following products

- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)

## P/N: T910814

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T910814  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
FLIR P/B/SC6xx and FLIR GF3xx series:	
Power supply, including multiple plugs, to charge the battery when it is inside or outside of the camera.	
FLIR T6xx and FLIR Exx series:	
Power supply, including multiple plugs, to charge the battery when it is inside the camera or in the battery charger.	
Power system	
AC operation	100–240 VAC, 50/60 Hz, 12 VDC out
Power	3000 mA at 12 VDC
Physical data	
Cable length	1.98 m (6.5 ft.)
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Power supply including cable</li> <li>EU plug</li> <li>UK plug</li> <li>US plug</li> <li>AU plug</li> </ul>
Packaging, weight	0.324 kg (9.7 lb.)
Packaging, size	152 × 78 × 73 mm (6.0 × 3.1 × 2.9 in.)
EAN-13	7332558003794 4743254001763 (Estonia plant)
UPC-12	845188002145
Country of origin	Sweden

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)



**P/N: T910814**

© 2015, FLIR Systems, Inc.  
#T910814; r. 23306; en-US

- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)



Power supply, incl. multi plugs

---

**P/N: T910814**

© 2015, FLIR Systems, Inc.  
#T910814; r. 23306; en-US

- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

**P/N: 1910423**

**Copyright**

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

**Document identity**

Publ. No.: 1910423  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

**Corporate Headquarters**

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

**Website**

<http://www.flir.com>

**Customer support**

<http://support.flir.com>

**Disclaimer**

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This cable is used to connect the infrared camera with a computer, using the USB protocol.	
Physical data	
Weight	60 g (2.1 oz.)
Cable length	1.8 m (5.9 ft.)
Connector	Standard USB-A to USB Mini-B
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558003428
UPC-12	845188002176
Country of origin	Sweden

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)

**P/N: 1910423**

© 2015, FLIR Systems, Inc.  
#1910423; r. 23306; en-US

- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40



---

**P/N: 1910423**

© 2015, FLIR Systems, Inc.  
#1910423; r. 23306; en-US

- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72201-0106; FLIR K45
- 72201-0206; FLIR K55

## P/N: 1122000

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1122000  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Camera pouch for E Series, InfraCAM/BCAM and FLIR i/bXX with waist belt (max 1.2 m, 3.9 ft.) made of Codura fabric with externally attached battery pouch.

### Physical data

Weight	42 g (1.48 oz.)
Size (L x W x H)	300 x 180 x 90 mm (11.8 x 7.1 x 3.5 in.)
Color	Black

### Shipping information

Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009628
UPC-12	845188010201
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: T197247

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197247  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Rugged, watertight plastic shipping case for FLIR i/bXX. Holds all items neatly and securely. The case can be locked with padlocks and features a breather valve to prevent pressure build-up in airplane cargo holds.

### Physical data

Weight	2.1 kg (4.6 lb.)
Size (L x W x H)	360 x 290 x 165 mm (14.2 x 11.4 x 6.5 in.)

### Shipping information

Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009659
UPC-12	845188010232
Country of origin	Sweden

### Compatible with the following products

- N/A

**P/N: T198586**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: T198586  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description
FLIR Reporter Professional is a powerful software for creating compelling and professional, fully customized, easy-to-interpret maintenance reports.
Professional Report Wizard guides you step-by-step in combining all IR inspection data - infrared and visual images, temperature measurements, and text notes – into a professional, easy-to-interpret maintenance report.
Key features:
<ul style="list-style-type: none"> <li>• Flexible report page design and layout for customized reports</li> <li>• Use quick insert function to easily create custom report pages</li> <li>• Fully integrated with standard Microsoft Word</li> <li>• Generates reports in standard MS Office format and PDF-format</li> <li>• Powerful temperature analysis</li> <li>• Triple Fusion Picture-in-Picture (movable, sizable, scalable)</li> <li>• Rapid report manager supporting automatic report generation by drag-and-drop</li> <li>• Support for MSX (Multi-Spectral Dynamic Imaging) images</li> <li>• Support for sketch images in both IR and visual with on/off toggling</li> <li>• Support for same FOV ("Field of View Match")</li> <li>• Grid settings</li> <li>• Trending functionality</li> <li>• Automatic link to Google™ Maps for images with GPS coordinates</li> <li>• Automatic summary table for the report</li> <li>• Fine tune images and make full temperature analysis directly in Microsoft Word</li> <li>• Spell check</li> <li>• Create your own formulas including measurement values from images</li> <li>• Play radiometric sequences directly in the report</li> <li>• Search functionality to quickly finding images for your report</li> <li>• Panorama tool for combining several images to a larger image</li> <li>• Support for GF series IR images</li> <li>• Auto Update function</li> <li>• Office 2003 (32-bit), Office 2007 (32-bit) and Office 2010 (32-bit)</li> <li>• Windows 7 (32 and 64-bit), Windows Vista (32 and 64-bit)</li> <li>• Support for METERLiNK™ data</li> <li>• *.docx compatibility</li> </ul>
Download
Download your copy of FLIR Reporter Professional here:
<a href="http://support.flir.com/reporter">http://support.flir.com/reporter</a>



**P/N: T198586**

© 2015, FLIR Systems, Inc.  
#T198586; r. 23306; en-US

Release notes	
Version	9.2
New features	<ul style="list-style-type: none"> <li>— News in 9.2: —</li> <li>Option to hide Zoom Viewer</li> <li>Option to extract Visual image from MSI/Fusion image.</li> <li>Support for the new FLIR Ex and Exx series cameras.</li> <li>Support for multispectral images.</li> <li>Support for auto-oriented images.</li> <li>Various bug fixes.</li> </ul>
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>FLIR Reporter Professional scratchcard</li> </ul>
Packaging, weight	0.135 kg (0.3 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005286 4743254001893 (Estonia plant)
UPC-12	845188005498
Country of origin	Sweden
System requirements	
Operating system	<ul style="list-style-type: none"> <li>Windows XP, 32-bit</li> <li>Windows Vista, 32-bit</li> <li>Windows Vista, 64-bit</li> <li>Windows 7, 32-bit</li> <li>Windows 7, 64-bit</li> </ul>
Software requirements	<ul style="list-style-type: none"> <li>Office 2007 (32-bit)</li> <li>Office 2010 (32-bit)</li> </ul>

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)

**P/N: T198586**

© 2015, FLIR Systems, Inc.  
#T198586; r. 23306; en-US

- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: T198586

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198586  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description
FLIR Reporter Professional is a powerful software for creating compelling and professional, fully customized, easy-to-interpret maintenance reports.
Professional Report Wizard guides you step-by-step in combining all IR inspection data - infrared and visual images, temperature measurements, and text notes – into a professional, easy-to-interpret maintenance report.
Key features:
<ul style="list-style-type: none"> <li>Flexible report page design and layout for customized reports</li> <li>Use quick insert function to easily create custom report pages</li> <li>Fully integrated with standard Microsoft Word</li> <li>Generates reports in standard MS Office format and PDF-format</li> <li>Powerful temperature analysis</li> <li>Triple Fusion Picture-in-Picture (movable, sizable, scalable)</li> <li>Rapid report manager supporting automatic report generation by drag-and-drop</li> <li>Support for MSX (Multi-Spectral Dynamic Imaging) images</li> <li>Support for sketch images in both IR and visual with on/off toggling</li> <li>Support for same FOV ("Field of View Match")</li> <li>Grid settings</li> <li>Trending functionality</li> <li>Automatic link to Google™ Maps for images with GPS coordinates</li> <li>Automatic summary table for the report</li> <li>Fine tune images and make full temperature analysis directly in Microsoft Word</li> <li>Spell check</li> <li>Create your own formulas including measurement values from images</li> <li>Play radiometric sequences directly in the report</li> <li>Search functionality to quickly finding images for your report</li> <li>Panorama tool for combining several images to a larger image</li> <li>Support for GF series IR images</li> <li>Auto Update function</li> <li>Office 2003 (32-bit), Office 2007 (32-bit) and Office 2010 (32-bit)</li> <li>Windows 7 (32 and 64-bit), Windows Vista (32 and 64-bit)</li> <li>Support for METERLiNK™ data</li> <li>*.docx compatibility</li> </ul>
Download
Download your copy of FLIR Reporter Professional here:
<a href="http://support.flir.com/reporter">http://support.flir.com/reporter</a>

**P/N: T198586**

© 2015, FLIR Systems, Inc.  
#T198586; r. 23306; en-US

Release notes	
Version	9.2
New features	<ul style="list-style-type: none"> <li>— News in 9.2: —</li> <li>Option to hide Zoom Viewer</li> <li>Option to extract Visual image from MSI/Fusion image.</li> <li>Support for the new FLIR Ex and Exx series cameras.</li> <li>Support for multispectral images.</li> <li>Support for auto-oriented images.</li> <li>Various bug fixes.</li> </ul>
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>FLIR Reporter Professional scratchcard</li> </ul>
Packaging, weight	0.135 kg (0.3 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005286 4743254001893 (Estonia plant)
UPC-12	845188005498
Country of origin	Sweden
System requirements	
Operating system	<ul style="list-style-type: none"> <li>Windows XP, 32-bit</li> <li>Windows Vista, 32-bit</li> <li>Windows Vista, 64-bit</li> <li>Windows 7, 32-bit</li> <li>Windows 7, 64-bit</li> </ul>
Software requirements	<ul style="list-style-type: none"> <li>Office 2007 (32-bit)</li> <li>Office 2010 (32-bit)</li> </ul>

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)

**P/N: T198586**

© 2015, FLIR Systems, Inc.  
#T198586; r. 23306; en-US

- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: DSW-10000

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: DSW-10000  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

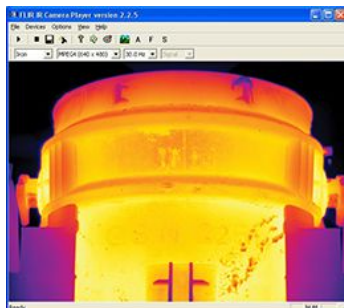
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

FLIR IR Camera Player is a PC-based remote control and viewer that you can use with cameras from FLIR Systems.

You can perform one or more of the following with FLIR IR Camera Player:

- Record a video stream from the camera.
- Save a frame from the video stream as a snapshot image (\*.bmp).
- Autofocus, focus far, and focus near.
- Autoadjust the camera image.
- Freeze the camera image.
- Save a camera image in the camera.
- Change Color palette.
- Add an image description and a text comment to an image.

You connect a camera in one of the following ways:

- Ethernet
- FireWire
- USB

### Download

This software is a freeware. To download, click the following link:

<http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=89>

### Release notes

Version	2.3.3
New features	<p>Main improvements in version 2.3.3:</p> <ul style="list-style-type: none"> <li>• Added latest device drivers (1.9.1.0).</li> <li>• Various bugfixes</li> </ul> <p>Main improvements in version 2.2.7:</p> <ul style="list-style-type: none"> <li>• Added support for FLIR Ax5 series.</li> </ul>

### System requirements

Operating system	<ul style="list-style-type: none"> <li>• Windows XP, 32-bit</li> <li>• Windows Vista, 32-bit/64-bit</li> <li>• Windows 7, 32-bit/64-bit</li> </ul>
------------------	--

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)

**P/N: DSW-10000**

© 2015, FLIR Systems, Inc.  
#DSW-10000; r. 24597; en-US

- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc

**P/N: DSW-10000**

© 2015, FLIR Systems, Inc.  
#DSW-10000; r. 24597; en-US

- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)





---

**P/N: DSW-10000**

© 2015, FLIR Systems, Inc.  
#DSW-10000; r. 24597; en-US

- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: T198696

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198696  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

FLIR ResearchIR Max 4.0 is aimed at R&D and science professionals who use thermal imaging cameras with a cooled or uncooled detectors. FLIR ResearchIR Max makes the most of a thermal imaging camera, and allows high-speed recording and advanced thermal pattern analysis. FLIR ResearchIR Max is the perfect tool for industrial R&D.

#### Main features:

- Pre/post-recording.
- Mathematical processing toolbox.
- Image filtering toolbox.
- Radiometric digital detail enhancement (DDE) improves dramatically the understanding of the thermal image, while maintaining radiometric measurement accuracy.
- View, record and store images at high speed.
- Post-processing of fast thermal events.
- Generate time-temperature plots from live images or recorded sequences.
- Advanced start/stop recording conditions.
- Unlimited number of analysis functions (spot, line, area).
- File organizer.
- Zoom and pan allows a closer look.
- Multiple dockable objects for plots and statistics.
- Export images and results to bitmap, video, Excel, MATLAB or CSV formats
- Local scale gain control on measurement - automatically adjusts the contrast in a specific part of the image.

FLIR ResearchIR Max 4 in combination with a FLIR thermal imaging camera is the perfect solution for any R&D or scientific application. It will allow researchers in all fields to make the smallest of temperature differences visible and to thoroughly analyze the thermal process in real-time.

### Download

Download your copy of FLIR ResearchIR Max 4 here (hardware security device required to run the software):

<http://support.flir.com/rir4>

### Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• FLIR ResearchIR Max 4 download card.</li> <li>• Hardware security device.</li> </ul>
Packaging, weight	0.066 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558007266
UPC-12	845188007638
Country of origin	Sweden

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)

**P/N: T198696**

© 2015, FLIR Systems, Inc.  
#T198696; r. 24597; en-US

- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 42901-1001; FLIR A305sc
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens

**P/N: T198696**

© 2015, FLIR Systems, Inc.  
#T198696; r. 24597; en-US

- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

**P/N: T198697**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: T198697  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

FLIR ResearchIR Max + HSDR 4 contains all the features of FLIR ResearchIR Max 4, plus support for FLIR High Speed Data Recorder (HSDR) products.

### Main features:

- Pre/post-recording.
- Mathematical processing toolbox.
- Image filtering toolbox.
- Radiometric digital detail enhancement (DDE) improves dramatically the understanding of the thermal image, while maintaining radiometric measurement accuracy.
- View, record and store images at high speed.
- Post-processing of fast thermal events.
- Generate time-temperature plots from live images or recorded sequences.
- Advanced start/stop recording conditions.
- Unlimited number of analysis functions (spot, line, area).
- File organizer.
- Zoom and pan allows a closer look.
- Multiple dockable objects for plots and statistics.
- Export images and results to bitmap, video, Excel, MATLAB or CSV formats
- Local scale gain control on measurement - automatically adjusts the contrast in a specific part of the image.

FLIR ResearchIR Max + HSDR 4 in combination with a FLIR thermal imaging camera is the perfect solution for any R&D or scientific application. It will allow researchers in all fields to make the smallest of temperature differences visible and to thoroughly analyze the thermal process in real-time.

## Download

Download your copy of FLIR ResearchIR Max + HSDR 4 here (hardware security device required to run the software):

<http://support.flir.com/rir4>

## Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• FLIR ResearchIR Max + HSDR 4 download card.</li> <li>• Hardware security device.</li> </ul>
Packaging, weight	0.068 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558007280
UPC-12	845188007652
Country of origin	Sweden

## Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)

**P/N: T198697**

© 2015, FLIR Systems, Inc.  
#T198697; r. 24597; en-US

- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 42901-1001; FLIR A305sc
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens

**P/N: T198697**

© 2015, FLIR Systems, Inc.  
#T198697; r. 24597; en-US

- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: T199832

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T199832  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

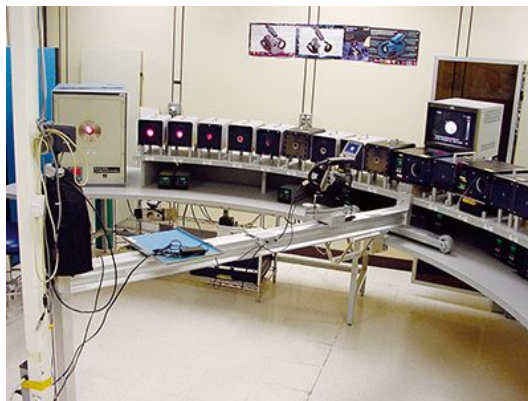
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

General Maintenance package offers a complete 14 points inspection and calibration service (for one lens combination). Shipping cost not included.

#### 14-point inspection program:

- Perform a complete operational check.
- Fusion calibration and laser alignment, when applicable.
- Verify all internal cable and PCB connections.
- Clean the viewfinder and check the optics.
- Upgrade the internal camera software to the latest revisions.
- Perform minor repairs.
- Verify and/or re-equalize as needed each temperature range for image uniformity.
- Verify standard lens calibration (optional: other or specially engineered lenses).
- Verify ambient temperature compensation as needed.
- Recalibration to ensure factory specifications are met.
- Calibrate temperature ranges up to +1500°C, when applicable.
- Perform a quality-approved acceptance test procedure.
- Provide a calibration label with the next due date.
- Provide a calibration certificate (optional: extended calibration certificate with measured values).

### Download

Contact info can be found at:

<http://support.flir.com>

### Compatible with the following products

- N/A



## P/N: ITC-ADV-3011

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3011  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course bridges the gap between IR thermography, background science and application theory. The participant will learn the physical concepts of heat transfer and apply them together with relevant building science. After the course, the participant will be able to do a qualified building inspection on the base of existing laws, standards, and regulations.

Note: This course refers mainly to European building standards. Please consult ITC before selling it in other countries.

### Content

- Introduction and refresher of IR basics
- Thermal transfer and wall structures
- Insulating materials
- Humidity, moisture, and the dew point
- Air leaks, pressure profiles, and air permeability
- Survey methodology

### Labs

- Outside inspection
- Air permeability test (with Blower Door)
- Reporting

### Course information

Available languages	English
Target group	<ul style="list-style-type: none"> <li>• Professional users in building applications who want to become experts in Building Thermography.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Knows how to operate the camera</li> <li>• Knows how to report</li> <li>• Has a background in a building profession, but rather moderate experience in IR or has experience in another IR application field but rather moderate knowledge in building science</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Valid Level 1 thermography certificate</li> <li>• IR related education and experience</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Knowledge of building techniques</li> <li>• Bring own PC for calculations and exercises</li> </ul>

**P/N: ITC-ADV-3011**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3011; r. 23306; en-US

Course details	
Duration	3 days (24 hours)
Structure	Theory takes place in the mornings, practical labs, calculations, and software exercises are scheduled for the afternoons.
Exam	A final test (20 multiple choice questions) will be written on the 3rd day in the afternoon. In connection, the correct answers will be discussed by the instructor and the participants.
Course fee includes	<ul style="list-style-type: none"><li>• Tuition by ITC licensed instructor</li><li>• Training material in printed format</li><li>• Refreshments</li><li>• Diploma of attendance</li><li>• Attendance of 1 person</li><li>• Might include more, such as lunch, depending on location and organizing entity</li></ul>
Course organization	
ITC	The Advanced Building Course is offered worldwide by ITC as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC.
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach the Advanced Building Course.

**Compatible with the following products**

- N/A

## P/N: ITC-ADV-3019

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3019  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course bridges the gap between IR thermography, background science and application theory. The participant will learn the physical concepts of heat transfer and apply them together with relevant building science. After the course, the participant will be able to do a qualified building inspection on the base of existing laws, standards, and regulations.

Note: This course refers mainly to European building standards. Please consult ITC before selling it in other countries.

### Content

- Introduction and refresher of IR basics
- Thermal transfer and wall structures
- Insulating materials
- Humidity, moisture, and the dew point
- Air leaks, pressure profiles, and air permeability
- Survey methodology

### Labs

- Outside inspection
- Air permeability test (with Blower Door)
- Reporting

### Course information

Available languages	English
Target group	<ul style="list-style-type: none"> <li>• Professional users in building applications who want to become experts in Building Thermography.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Knows how to operate the camera</li> <li>• Knows how to report</li> <li>• Has a background in a building profession, but rather moderate experience in IR or has experience in another IR application field but rather moderate knowledge in building science</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Valid Level 1 thermography certificate</li> <li>• IR related education and experience</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Knowledge of building techniques</li> <li>• Bring own PC for calculations and exercises</li> </ul>

**P/N: ITC-ADV-3019**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3019; r. 23306; en-US

Course details	
Duration	3 days (24 hours)
Structure	Theory takes place in the mornings, practical labs, calculations, and software exercises are scheduled for the afternoons.
Exam	A final test (20 multiple choice questions) will be written on the 3rd day in the afternoon. In connection, the correct answers will be discussed by the instructor and the participants.
Course fee includes	<ul style="list-style-type: none"><li>• Tuition by ITC licensed instructor</li><li>• Training material in printed format</li><li>• Refreshments</li><li>• Diploma of attendance</li><li>• Attendance of a group up to 10 persons</li><li>• Might include more, such as lunch, instructor's travel expenses, etc. depending on location and organizing entity</li></ul>
Course organization	
ITC	The Advanced Building Course is offered worldwide by ITC as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC.
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach the Advanced Building Course.

**Compatible with the following products**

- N/A

## P/N: ITC-ADV-3021

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3021  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This interdisciplinary course bridges the gap between IR thermography, background science and application theory. Being an overview course it deals with three main application fields of thermography: electrical, industrial, and building. For every application the participant will learn about the specific theory, typical faults, and how to detect them with a thermography camera. The student will also learn about the basics of condition monitoring, and maintenance.

Examples and case studies from the real world illustrate the course content and are discussed with the participants. Participants will be trained in discovering and identifying typical faults by typical thermal patterns.

### Content

- Introduction
- Electrical Applications (current, voltage, resistance, electrical systems, Ohm's law, some important properties of materials, typical faults, surveying methodology and criteria, safety, voltage limits)
- Industrial Applications (bearings, pumps, gears, belts, misalignment and couplings, gaskets, seals, rings, glands, steam traps, furnaces)
- Building Applications (definition of the building envelope, steady state thermal transfer in a building envelope, transient thermal transfer in a building envelope, applications)

### Course information

Available languages	
English	
Target group	<ul style="list-style-type: none"> <li>• Professional thermographers holding a Level 1 or a Level 2 certificate and</li> <li>• with interest in increasing their knowledge of different thermographic applications, and their limitations or</li> <li>• with a special interest in condition monitoring of machines</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Knows how to operate the camera</li> <li>• Knows how to report</li> <li>• Works in the industry with e.g. maintenance and condition monitoring or is a consultant</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Valid Level 1 thermography certificate</li> <li>• IR related education and experience</li> </ul>

**P/N: ITC-ADV-3021**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3021; r. 23306; en-US

Course details	
Duration	3 days (24 hours)
Structure	The course is divided into the three parts: Electrical Applications, Industrial Applications, and Building Applications. Theory sessions and case studies including interactive discussions alternate.
Exam	A final exam (30 multiple choice questions) will be written on the 3d day in the afternoon. In connection, the correct answers will be discussed by the instructor and the participants.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Attendance of 1 person</li> <li>• Might include more, such as lunch, depending on location and organizing entity</li> </ul>
Course organization	
ITC	The Advanced General Thermography Course is offered worldwide by ITC as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary.
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Advanced General Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)

**P/N: ITC-ADV-3021**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3021; r. 23306; en-US

- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC

---

**P/N: ITC-ADV-3021**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3021; r. 23306; en-US

- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°



## P/N: ITC-ADV-3029

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3029  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This interdisciplinary course bridges the gap between IR thermography, background science and application theory. Being an overview course it deals with three main application fields of thermography: electrical, industrial, and building. For every application the participant will learn about the specific theory, typical faults, and how to detect them with a thermography camera. The student will also learn about the basics of condition monitoring, and maintenance.

Examples and case studies from the real world illustrate the course content and are discussed with the participants. Participants will be trained in discovering and identifying typical faults by typical thermal patterns.

### Content

- Introduction
- Electrical Applications (current, voltage, resistance, electrical systems, Ohm's law, some important properties of materials, typical faults, surveying methodology and criteria, safety, voltage limits)
- Industrial Applications (bearings, pumps, gears, belts, misalignment and couplings, gaskets, seals, rings, glands, steam traps, furnaces)
- Building Applications (definition of the building envelope, steady state thermal transfer in a building envelope, transient thermal transfer in a building envelope, applications)

### Course information

Available languages	
English	
Target group	
<ul style="list-style-type: none"> <li>• Professional thermographers holding a Level 1 or a Level 2 certificate and</li> <li>• with interest in increasing their knowledge of different thermographic applications, and their limitations or</li> <li>• with a special interest in condition monitoring of machines</li> </ul>	
Typical student	
<ul style="list-style-type: none"> <li>• Knows how to operate the camera</li> <li>• Knows how to report</li> <li>• Works in the industry with e.g. maintenance and condition monitoring or is a consultant</li> </ul>	
Pre-requisites	
<ul style="list-style-type: none"> <li>• Valid Level 1 thermography certificate</li> <li>• IR related education and experience</li> </ul>	

**P/N: ITC-ADV-3029**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3029; r. 23306; en-US

Course details	
Duration	3 days (24 hours)
Structure	The course is divided into the three parts: Electrical Applications, Industrial Applications, and Building Applications. Theory sessions and case studies including interactive discussions alternate.
Exam	A final exam (30 multiple choice questions) will be written on the 3d day in the afternoon. In connection, the correct answers will be discussed by the instructor and the participants.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Attendance of a group up to 10 persons</li> <li>• Might include more, such as lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	The Advanced General Thermography Course is offered worldwide by ITC as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary.
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Advanced General Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)

**P/N: ITC-ADV-3029**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3029; r. 23306; en-US

- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL

---

**P/N: ITC-ADV-3029**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3029; r. 23306; en-US

- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-EXP-1021

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1021  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

An on-site training can be customized upon your needs. The participants will learn about IR thermography, inspections, measurements, applications, and reporting corresponding to the level needed for performing measurements and inspection in their working environment. The trainer will give useful advice on how to best implement IR thermography in your business.

This partnumber is reserved for adding additional students to an on site class.

### Content

- An on-site course can be any course, from a 1-day introduction to general thermography, over a customized application course to a complete certification course.

### Labs

- Portable classroom labs
- Field training on the site in agreement with the customer

### Course information

Available languages	English, Dutch, German, French, Italian, Spanish, Swedish, other languages upon request
Target group	<ul style="list-style-type: none"> <li>• Employees of a company or certain departments who would like to minimize travel costs and receive the training directly on their daily working site.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>

### Course details

Duration	Customized or according to the kind of course the in-house training is equivalent to.
Structure	Theory, camera handling, demos, practical labs and field training alternate.

**P/N: ITC-EXP-1021**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1021; r. 23306; en-US

Course details	
Exam	Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> </ul>
Course organization	
ITC	ITC In-house courses are offered worldwide by ITC and partners as listed. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	ITC In-house courses are lectured by ITC qualified instructors with experience in the relevant fields of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm

**P/N: ITC-EXP-1021**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1021; r. 23306; en-US

- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°

**P/N: ITC-EXP-1021**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1021; r. 23306; en-US

- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display



## P/N: ITC-EXP-1029

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1029  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
An on-site training can be customized upon your needs. The participants will learn about IR thermography, inspections, measurements, applications, and reporting corresponding to the level needed for performing measurements and inspection in their working environment. The trainer will give useful advice on how to best implement IR thermography in your business.	
Content	
<ul style="list-style-type: none"> <li>An on-site course can be any course, from a 1-day introduction to general thermography, over a customized application course to a complete certification course.</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Portable classroom labs</li> <li>Field training on the site in agreement with the customer</li> </ul>	
Course information	
Available languages	English, Dutch, German, French, Italian, Spanish, Swedish, other languages upon request
Target group	<ul style="list-style-type: none"> <li>Employees of a company or certain departments who would like to minimize travel costs and receive the training directly on their daily working site.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>
Course details	
Duration	Customized or according to the kind of course the in-house training is equivalent to.
Structure	Theory, camera handling, demos, practical labs and field training alternate.
Exam	Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.

**P/N: ITC-EXP-1029**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1029; r. 23306; en-US

Course details	
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by qualified ITC instructor</li> <li>• Training material in printed format</li> <li>• Diploma of attendance</li> <li>• Attendance of a group up to 10 persons</li> </ul>
Note	Course fee does not include cost for instructor's travelling or lodging. When organized at the customers' site, the customer is responsible for providing a suitable classroom and preferably also refreshments/lunch.
Course organization	
ITC	ITC In-house courses are offered worldwide by ITC and partners as listed. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	ITC In-house courses are lectured by ITC qualified instructors with experience in the relevant fields of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)

**P/N: ITC-EXP-1029**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1029; r. 23306; en-US

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL

**P/N: ITC-EXP-1029**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1029; r. 23306; en-US

- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-CER-5105

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5105  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 1 certified thermographer. The participant will learn about the basics of infrared, how to operate the camera under different conditions and for various purposes, how to do an appropriate judgement of the measurement situation in the field and how to identify potential error sources. After the class, the participant will be able to do IR inspections following written guidelines and to report the result of this inspection.

This partnumber is reserved for adding additional students to a level 1 on site class.

### Content

- Introduction to Thermography
- Camera Operation
- Basic physics of heat
- Basic physics of infrared
- Thermal pattern recognition and IR applications
- IR temperature measurement techniques
- Qualitative and quantitative thermography
- Inspection routines and reporting

### Student presentations

During the seminar, students will generate a small case study based on the lab exercises to be presented to the class.

### Labs

- Camera handling
- Level and Span
- Conduction pattern
- Forced convection
- Direct and indirect thermal measurement
- Thermal capacity
- Steady state and transient heat flow
- Evaporation and condensation
- Electrical application
- Emissivity and Reflected apparent temperature
- Spatial resolution
- Location and temperature measurement of a hot/cold spot
- Image transfer to the computer

**P/N: ITC-CER-5105**

© 2015, FLIR Systems, Inc.

#ITC-CER-5105; r. 23306; en-US

Course information	
Available languages	Chinese, Danish, Dutch, English, Finish, French, German, Greek, Hebrew, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (bra.), Romanian, Russian, Serbo-Croatian, Spanish, Swedish, Thai
Target group	<ul style="list-style-type: none"> <li>• Practical user</li> <li>• This course is designed for beginners in thermography with some experience in camera handling and limited IR knowledge, who want to take their first step to become a professional thermographer and want to qualify as a Level 1 certified thermographer.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>• having already some basic experience with IR thermography,</li> <li>• knowing the basic functions of the camera,</li> <li>• who wants to become a certified thermographer in order to gain a competitive advantage or who needs the certifications because of legal reasons or company internal regulations.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Be familiar with the basic operation of an infrared camera</li> <li>• Have the recommended experience within thermography according to relevant standards</li> </ul>

Course details	
Duration	35 – 40 hours
Structure	Theory and camera practice (hands-on) alternate every day, additional labs and software exercises at some days.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>• Attendance of 1 person</li> <li>• Might include more, such as lunch, depending on location and organizing entity</li> </ul>
Note	Only for non-EURO, non-SEK, non NOK, non- £, -non CHF countries

Course organization	
ITC	The Level 1 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)

**P/N: ITC-CER-5105**

© 2015, FLIR Systems, Inc.

#ITC-CER-5105; r. 23306; en-US

- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc

**P/N: ITC-CER-5105**

© 2015, FLIR Systems, Inc.

#ITC-CER-5105; r. 23306; en-US

- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display



## P/N: ITC-CER-5101

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5101  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 1 certified thermographer. The participant will learn about the basics of infrared, how to operate the camera under different conditions and for various purposes, how to do an appropriate judgement of the measurement situation in the field and how to identify potential error sources. After the class, the participant will be able to do IR inspections following written guidelines and to report the result of this inspection.

### Content

- Introduction to Thermography
- Camera Operation
- Basic physics of heat
- Basic physics of infrared
- Thermal pattern recognition and IR applications
- IR temperature measurement techniques
- Qualitative and quantitative thermography
- Inspection routines and reporting

### Student presentations

During the seminar, students will generate a small case study based on the lab exercises to be presented to the class.

### Labs

- Camera handling
- Level and Span
- Conduction pattern
- Forced convection
- Direct and indirect thermal measurement
- Thermal capacity
- Steady state and transient heat flow
- Evaporation and condensation
- Electrical application
- Emissivity and Reflected apparent temperature
- Spatial resolution
- Location and temperature measurement of a hot/cold spot
- Image transfer to the computer

**P/N: ITC-CER-5101**

© 2015, FLIR Systems, Inc.

#ITC-CER-5101; r. 23306; en-US

Course information	
Available languages	Chinese, Danish, Dutch, English, Finish, French, German, Greek, Hebrew, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (bra.), Romanian, Russian, Serbo-Croatian, Spanish, Swedish, Thai
Target group	<ul style="list-style-type: none"> <li>Practical user</li> <li>This course is designed for beginners in thermography with some experience in camera handling and limited IR knowledge, who want to take their first step to become a professional thermographer and want to qualify as a Level 1 certified thermographer.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>having already some basic experience with IR thermography,</li> <li>knowing the basic functions of the camera,</li> <li>who wants to become a certified thermographer in order to gain a competitive advantage or who needs the certifications because of legal reasons or company internal regulations.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Be familiar with the basic operation of an infrared camera</li> <li>Have the recommended experience within thermography according to relevant standards</li> </ul>

Course details	
Duration	35 – 40 hours
Structure	Theory and camera practice (hands-on) alternate every day, additional labs and software exercises at some days.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>Attendance of 1 person</li> <li>Might include more, such as lunch, depending on location and organizing entity</li> </ul>

Course organization	
ITC	The Level 1 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)

**P/N: ITC-CER-5101**

© 2015, FLIR Systems, Inc.

#ITC-CER-5101; r. 23306; en-US

- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)

**P/N: ITC-CER-5101**

© 2015, FLIR Systems, Inc.

#ITC-CER-5101; r. 23306; en-US

- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-CER-5109

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5109  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 1 certified thermographer. The participant will learn about the basics of infrared, how to operate the camera under different conditions and for various purposes, how to do an appropriate judgement of the measurement situation in the field and how to identify potential error sources. After the class, the participant will be able to do IR inspections following written guidelines and to report the result of this inspection.

### Content

- Introduction to Thermography
- Camera Operation
- Basic physics of heat
- Basic physics of infrared
- Thermal pattern recognition and IR applications
- IR temperature measurement techniques
- Qualitative and quantitative thermography
- Inspection routines and reporting

### Student presentations

During the seminar, students will generate a small case study based on the lab exercises to be presented to the class.

### Labs

- Camera handling
- Level and Span
- Conduction pattern
- Forced convection
- Direct and indirect thermal measurement
- Thermal capacity
- Steady state and transient heat flow
- Evaporation and condensation
- Electrical application
- Emissivity and Reflected apparent temperature
- Spatial resolution
- Location and temperature measurement of a hot/cold spot
- Image transfer to the computer

**P/N: ITC-CER-5109**

© 2015, FLIR Systems, Inc.

#ITC-CER-5109; r. 23306; en-US

Course information	
Available languages	Chinese, Danish, Dutch, English, Finish, French, German, Greek, Hebrew, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (bra.), Romanian, Russian, Serbo-Croatian, Spanish, Swedish, Thai
Target group	<ul style="list-style-type: none"> <li>• Practical user</li> <li>• This course is designed for beginners in thermography with some experience in camera handling and limited IR knowledge, who want to take their first step to become a professional thermographer and want to qualify as a Level 1 certified thermographer.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>• having already some basic experience with IR thermography,</li> <li>• knowing the basic functions of the camera,</li> <li>• who wants to become a certified thermographer in order to gain a competitive advantage or who needs the certifications because of legal reasons or company internal regulations.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Be familiar with the basic operation of an infrared camera</li> <li>• Have the recommended experience within thermography according to relevant standards</li> </ul>

Course details	
Duration	35 – 40 hours
Structure	Theory and camera practice (hands-on) alternate every day, additional labs and software exercises at some days.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>• Attendance of a group up to 10 persons</li> <li>• Might include more, such as lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>

Course organization	
ITC	The Level 1 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)

**P/N: ITC-CER-5109**

© 2015, FLIR Systems, Inc.

#ITC-CER-5109; r. 23306; en-US

- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310

**P/N: ITC-CER-5109**

© 2015, FLIR Systems, Inc.

#ITC-CER-5109; r. 23306; en-US

- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display



## P/N: ITC-CER-5205

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5205  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 2 certified thermographer. The participant will learn about topics in infrared thermography to increase the knowledge about infrared physics, heat science, infrared measurement equipment and its application. As a Level 2 thermographer the participant shall provide guidance to category 1 personnel in the areas of equipment selection, techniques, limitations, data analysis, corrective actions and reporting.

This partnumber is reserved for adding additional students to a level 2 on site class.

### Content

- Thermal science
- Heat transfer
- Temperature measurement
- Infrared science
- IR equipment and applications

### Student presentations

During the seminar, students shall present a prepared case study to the class. The maximum duration (excl. discussion) should be 7 minutes and the maximum number of 7 slides should not be exceeded.

### Labs (Note: Labs marked "(M)" are mandatory)

- Newton's law (class lab) (M)
- Advanced emissivity measurement (M)
- Variation of emissivity with the angle (M)
- Transient thermal transfer
- Indirect power measurement (M)
- IR-window transmission (M)
- Slit Response Function
- Hole Response Function (M)
- Parallel circuits

### Course information

Available languages	Dutch, English, German, French, Italian, Portuguese (bra.), Spanish, Swedish
Target group	<ul style="list-style-type: none"> <li>• Professional user</li> <li>• This course is designed for thermographers holding a Level 1 certificate, who want to increase their knowledge about IR thermography and who want to qualify as a Level 2 certified thermographer.</li> </ul>

**P/N: ITC-CER-5205**

© 2015, FLIR Systems, Inc.

#ITC-CER-5205; r. 23306; en-US

Course information	
Typical student	<ul style="list-style-type: none"> <li>A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>having several months of professional experience within thermography,</li> <li>versed in camera operation and reporting,</li> <li>holding a Level 1 certificate,</li> <li>who needs the Level 2 Certification for guidance and supervision of other thermographers or is interested in deeper understanding of IR thermography.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Valid Level 1 thermography certificate,</li> <li>Recommended experience within thermography according to relevant standards,</li> <li>Prepared case study to be presented at the Level 2 course and submitted towards qualification at course closing.</li> </ul>
Course details	
Duration	40 hours
Structure	Theory, camera practice (hands-on), and prepared case studies alternate every day.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>Attendance of 1 person</li> <li>Might include more, such as lunch, depending on location and organizing entity.</li> </ul>
Note	Only for non-EURO, non-SEK, non NOK, non- £, -non CHF countries
Course organization	
ITC	The Level 2 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in T560393 Courses offered by ITC partners. Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)

**P/N: ITC-CER-5205**

© 2015, FLIR Systems, Inc.

#ITC-CER-5205; r. 23306; en-US

- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°

**P/N: ITC-CER-5205**

© 2015, FLIR Systems, Inc.

#ITC-CER-5205; r. 23306; en-US

- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-CER-5201

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5201  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 2 certified thermographer. The participant will learn about topics in infrared thermography to increase the knowledge about infrared physics, heat science, infrared measurement equipment and its application. As a Level 2 thermographer the participant shall provide guidance to category 1 personnel in the areas of equipment selection, techniques, limitations, data analysis, corrective actions and reporting.

### Content

- Thermal science
- Heat transfer
- Temperature measurement
- Infrared science
- IR equipment and applications

### Student presentations

During the seminar, students shall present a prepared case study to the class. The maximum duration (excl. discussion) should be 7 minutes and the maximum number of 7 slides should not be exceeded.

### Labs (Note: Labs marked "(M)" are mandatory)

- Newton's law (class lab) (M)
- Advanced emissivity measurement (M)
- Variation of emissivity with the angle (M)
- Transient thermal transfer
- Indirect power measurement (M)
- IR-window transmission (M)
- Slit Response Function
- Hole Response Function (M)
- Parallel circuits

### Course information

#### Available languages

Dutch, English, German, French, Italian, Portuguese (bra.), Spanish, Swedish

#### Target group

- Professional user
- This course is designed for thermographers holding a Level 1 certificate, who want to increase their knowledge about IR thermography and who want to qualify as a Level 2 certified thermographer.

**P/N: ITC-CER-5201**

© 2015, FLIR Systems, Inc.

#ITC-CER-5201; r. 23306; en-US

Course information	
Typical student	<ul style="list-style-type: none"> <li>A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>having several months of professional experience within thermography,</li> <li>versed in camera operation and reporting,</li> <li>holding a Level 1 certificate,</li> <li>who needs the Level 2 Certification for guidance and supervision of other thermographers or is interested in deeper understanding of IR thermography.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Valid Level 1 thermography certificate,</li> <li>Recommended experience within thermography according to relevant standards,</li> <li>Prepared case study to be presented at the Level 2 course and submitted towards qualification at course closing.</li> </ul>
Course details	
Duration	40 hours
Structure	Theory, camera practice (hands-on), and prepared case studies alternate every day.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>Attendance of 1 person</li> <li>Might include more, such as lunch, depending on location and organizing entity.</li> </ul>
Course organization	
ITC	The Level 2 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in T560393 Courses offered by ITC partners. Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)

**P/N: ITC-CER-5201**

© 2015, FLIR Systems, Inc.

#ITC-CER-5201; r. 23306; en-US

- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°

**P/N: ITC-CER-5201**

© 2015, FLIR Systems, Inc.

#ITC-CER-5201; r. 23306; en-US

- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°



## P/N: ITC-CER-5209

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5209  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 2 certified thermographer. The participant will learn about topics in infrared thermography to increase the knowledge about infrared physics, heat science, infrared measurement equipment and its application. As a Level 2 thermographer the participant shall provide guidance to category 1 personnel in the areas of equipment selection, techniques, limitations, data analysis, corrective actions and reporting.

#### Content

- Thermal science
- Heat transfer
- Temperature measurement
- Infrared science
- IR equipment and applications

#### Student presentations

During the seminar, students shall present a prepared case study to the class. The maximum duration (excl. discussion) should be 7 minutes and the maximum number of 7 slides should not be exceeded.

#### Labs (Note: Labs marked "(M)" are mandatory)

- Newton's law (class lab) (M)
- Advanced emissivity measurement (M)
- Variation of emissivity with the angle (M)
- Transient thermal transfer
- Indirect power measurement (M)
- IR-window transmission (M)
- Slit Response Function
- Hole Response Function (M)
- Parallel circuits

### Course information

#### Available languages

Dutch, English, German, French, Italian, Portuguese (bra.), Spanish, Swedish

#### Target group

- Professional user
- This course is designed for thermographers holding a Level 1 certificate, who want to increase their knowledge about IR thermography and who want to qualify as a Level 2 certified thermographer.

**P/N: ITC-CER-5209**

© 2015, FLIR Systems, Inc.

#ITC-CER-5209; r. 23306; en-US

Course information	
Typical student	<ul style="list-style-type: none"> <li>A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>having several months of professional experience within thermography,</li> <li>versed in camera operation and reporting,</li> <li>holding a Level 1 certificate,</li> <li>who needs the Level 2 Certification for guidance and supervision of other thermographers or is interested in deeper understanding of IR thermography.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Valid Level 1 thermography certificate,</li> <li>Recommended experience within thermography according to relevant standards,</li> <li>Prepared case study to be presented at the Level 2 course and submitted towards qualification at course closing.</li> </ul>
Course details	
Duration	40 hours
Structure	Theory, camera practice (hands-on), and prepared case studies alternate every day.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as lunch, instructor's travel expenses, etc. depending on location and organizing entity.</li> </ul>
Course organization	
ITC	The Level 2 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in T560393 Courses offered by ITC partners. Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)

**P/N: ITC-CER-5209**

© 2015, FLIR Systems, Inc.

#ITC-CER-5209; r. 23306; en-US

- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°

**P/N: ITC-CER-5209**

© 2015, FLIR Systems, Inc.

#ITC-CER-5209; r. 23306; en-US

- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-EXP-2019

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2019  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course gives a general introduction to IR thermography and an overview on its specific use for the inspection of buildings. It aims at giving you clues on what you can do with your camera.

During the first day, you learn the basics of thermography and how to use your camera the best way. The second day you will start with a brief reminder of thermal transfers before you learn about the building envelope, important physical parameters and typical faults. Emphasis is put on case studies, selected from the field.

### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- IR Camera handling
- Basics of heat transfer
- The building envelope
- Important physical parameters
- Major anomalies
- Thermal patterns
- Application guidelines
- Data analysis and reports

### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement
- Building application labs

### Course information

Available languages	English, French, German, Swedish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in IR thermography and building applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person from the building sector</li> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> <li>• Students and pupils with thermography and building application related projects</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>



## ITC Short course building thermography - inclusive 10 pers. (2 days)

### P/N: ITC-EXP-2019

© 2015, FLIR Systems, Inc.

#ITC-EXP-2019; r. 23306; en-US

Course details	
Duration	2 days
Structure	Theory, camera handling, demos and practical labs alternate.
Exam	None
Course fee includes	<ul style="list-style-type: none"><li>• Tuition by qualified ITC instructor</li><li>• Training material in printed format</li><li>• Diploma of attendance</li><li>• Attendance of a group up to 10 persons</li><li>• Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li></ul>
Course organization	
ITC	The "ITC Short Course Building Thermography" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Building Thermography" is lectured by qualified ITC instructors with special experience in the field of building applications.

### Compatible with the following products

- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-2011

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2011  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course gives a general introduction to IR thermography and an overview on its specific use for the inspection of buildings. It aims at giving you clues on what you can do with your camera.

During the first day, you learn the basics of thermography and how to use your camera the best way. The second day you will start with a brief reminder of thermal transfers before you learn about the building envelope, important physical parameters and typical faults. Emphasis is put on case studies, selected from the field.

### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- IR Camera handling
- Basics of heat transfer
- The building envelope
- Important physical parameters
- Major anomalies
- Thermal patterns
- Application guidelines
- Data analysis and reports

### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement
- Building application labs

### Course information

Available languages	English, French, German, Swedish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in IR thermography and building applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person from the building sector</li> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> <li>• Students and pupils with thermography and building application related projects</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>



**P/N: ITC-EXP-2011**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2011; r. 23306; en-US

Course details	
Duration	2 days
Structure	Theory, camera handling, demos and practical labs alternate.
Exam	None
Course fee includes	<ul style="list-style-type: none"><li>• Tuition by qualified ITC instructor</li><li>• Training material in printed format</li><li>• Diploma of attendance</li><li>• Might include more, such as refreshments or lunch, depending on location and organizing entity</li></ul>
Course organization	
ITC	The "ITC Short Course Building Thermography" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Building Thermography" is lectured by qualified ITC instructors with special experience in the field of building applications.

**Compatible with the following products**

- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display



## P/N: ITC-EXP-2061

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2061  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

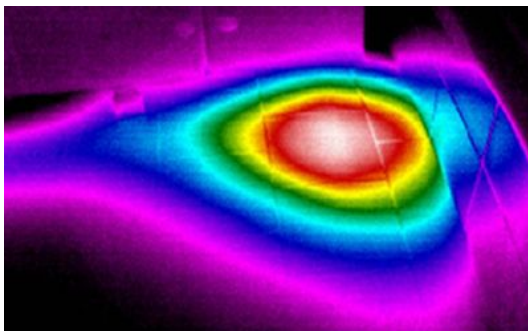
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course gives a general introduction to IR thermography and an overview on its specific use for inspections of heating and HVAC systems, and related installations. It aims at giving you clues on what you can do with your camera.

During the first day, you learn the basics of thermography, and how to use your camera the best way. The second day you will get introduced to various heating systems before you learn about typical faults and how thermography helps you to locate and analyze these. Emphasis is put on case studies, selected from the field.

### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- IR Camera handling
- Heating systems
- Pipe tracing and localization of water circuits
- Water leaks
- Moisture and humidity
- Water radiators
- Tanks, manifolds and plenums
- HVAC systems
- Industrial heat exchangers
- Photovoltaic panel inspection
- Data analysis and reports

### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement
- Application labs

### Course information

Available languages	English, French, German, Italian, Spanish, Swedish
Target group	<ul style="list-style-type: none"> <li>• Beginners and anybody interested in IR thermography, plumbing and HVAC applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Plumbers or persons working with plumbing and or/HVAC systems</li> <li>• Facility managers</li> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>

### Course details

Duration	2 days
Structure	Theory, camera handling, demos and practical labs alternate.



**P/N: ITC-EXP-2061**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2061; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"><li>• Tuition by qualified ITC instructor</li><li>• Training material in printed format</li><li>• Refreshments</li><li>• Diploma of attendance</li><li>• Might include more, such as lunch, depending on location</li></ul>
Course organization	
ITC	The "ITC Short Course HVAC and plumbing" is offered in EMEA by ITC and partners. Specific customer requests shall be forwarded to the closest ITC or ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course HVAC and plumbing" is lectured by qualified ITC instructors with special experience in the field of electrical installations.

**Compatible with the following products**

- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-2069

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2069  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

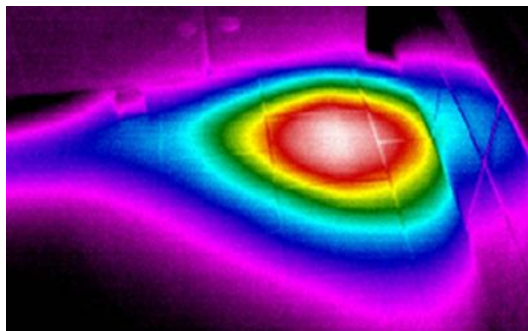
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course gives a general introduction to IR thermography and an overview on its specific use for inspections of heating and HVAC systems, and related installations. It aims at giving you clues on what you can do with your camera.

During the first day, you learn the basics of thermography, and how to use your camera the best way. The second day you will get introduced to various heating systems before you learn about typical faults and how thermography helps you to locate and analyze these. Emphasis is put on case studies, selected from the field.

### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- IR Camera handling
- Heating systems
- Pipe tracing and localization of water circuits
- Water leaks
- Moisture and humidity
- Water radiators
- Tanks, manifolds and plenums
- HVAC systems
- Industrial heat exchangers
- Photovoltaic panel inspection
- Data analysis and reports

### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement
- Application labs

### Course information

Available languages	English, French, German, Italian, Spanish, Swedish
Target group	<ul style="list-style-type: none"> <li>• Beginners and anybody interested in IR thermography, plumbing and HVAC applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Plumbers or persons working with plumbing and or/HVAC systems</li> <li>• Facility managers</li> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>

### Course details

Duration	2 days
Structure	Theory, camera handling, demos and practical labs alternate.
Exam	None



**P/N: ITC-EXP-2069**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2069; r. 23306; en-US

Course details	
Course fee includes	<ul style="list-style-type: none"><li>• Tuition by qualified ITC instructor</li><li>• Training material in printed format</li><li>• Diploma of attendance</li><li>• Attendance of a group up to 10 persons</li><li>• Might include more, such as refreshments or lunch, depending on location.</li></ul>
Note	Course fee does not include cost for instructor's travelling or lodging.
Course organization	
ITC	The "ITC Short Course HVAC and plumbing" is offered in EMEA by ITC and partners. Specific customer requests shall be forwarded to the closest ITC or ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course HVAC and plumbing" is lectured by qualified ITC instructors with special experience in the field of electrical installations.

**Compatible with the following products**

- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-1019

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1019  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This is a full one day course for beginners and everybody interested in IR thermography and its applications. The course covers the basics of IR theory and includes demos, camera hand-on and practical exercises using relevant key labs.

### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- Introduction to electrical and building inspections
- IR Camera handling
- Data analysis and reports

### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement

### Course information

Available languages	English, French, German, Swedish, Danish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in IR thermography and its applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> <li>• A person who starts to use IR cameras at work</li> <li>• Students and pupils with thermography related projects</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>

### Course details

Duration	1 day
Structure	Theory, camera handling and demos in the morning. Practical labs in the afternoon.

**P/N: ITC-EXP-1019**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1019; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	The "ITC Short Course Introduction to Thermography" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Introduction to Thermography" is lectured by qualified ITC instructors with long time experience in the various fields of thermography.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)

**P/N: ITC-EXP-1019**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1019; r. 23306; en-US

- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC



---

**P/N: ITC-EXP-1019**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1019; r. 23306; en-US

- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display



## P/N: ITC-EXP-1011

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1011  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This is a full one day course for beginners and everybody interested in IR thermography and its applications. The course covers the basics of IR theory and includes demos, camera hand-on and practical exercises using relevant key labs.

### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- Introduction to electrical and building inspections
- IR Camera handling
- Data analysis and reports

### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement

### Course information

Available languages	English, French, German, Swedish, Danish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in IR thermography and its applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> <li>• A person who starts to use IR cameras at work</li> <li>• Students and pupils with thermography related projects</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>

### Course details

Duration	1 day
Structure	Theory, camera handling and demos in the morning. Practical labs in the afternoon.

**P/N: ITC-EXP-1011**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1011; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by qualified ITC instructor</li> <li>• Training material in printed format</li> <li>• Diploma of attendance</li> <li>• Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>
Course organization	
ITC	The "ITC Short Course Introduction to Thermography" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Introduction to Thermography" is lectured by qualified ITC instructors with long time experience in the various fields of thermography.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)

**P/N: ITC-EXP-1011**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1011; r. 23306; en-US

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL

---

**P/N: ITC-EXP-1011**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1011; r. 23306; en-US

- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-SOW-0001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-SOW-0001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
These courses are for users of FLIR software like FLIR Reporter Professional or FLIR ResearchIR. Please observe that content and labs depend on the software used.	
Content	
<ul style="list-style-type: none"> <li>• System requirements</li> <li>• Configuration</li> <li>• Analyzing functions</li> <li>• Templates</li> <li>• Reporting functions</li> <li>• Data exchange</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>• System set up</li> <li>• Data import</li> <li>• Data analysis</li> <li>• Creating templates</li> <li>• Creating reports</li> <li>• Exporting data</li> <li>• Triggering</li> </ul>	
Course information	
Available languages	English, French, German, other languages upon request
Target group	<ul style="list-style-type: none"> <li>• Persons interested in, or users, of the specific software.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Consultants interested in reporting</li> <li>• Building inspectors with reporting needs</li> <li>• R&amp;D staff interested in advanced data analysis</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Laptop with installed software full version or 30 day demo (download on <a href="http://www.flir.com">www.flir.com</a>)</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic knowledge about thermography and related parameters.</li> </ul>
Course details	
Duration	Depends on software.
Structure	Short system introduction, then demos and practical exercises.

**P/N: ITC-SOW-0001**

© 2015, FLIR Systems, Inc.  
#ITC-SOW-0001; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>
Course organization	
ITC	Software courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Software courses are lectured by ITC qualified instructors experienced in usage of the software being subject of the class.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)

**P/N: ITC-SOW-0001**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0001; r. 23306; en-US

- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°

**P/N: ITC-SOW-0001**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0001; r. 23306; en-US

- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display



## P/N: ITC-SOW-0009

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-SOW-0009  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
These courses are for users of FLIR software like FLIR Reporter Professional or FLIR ResearchIR. Please observe that content and labs depend on the software used.	
Content	
<ul style="list-style-type: none"> <li>• System requirements</li> <li>• Configuration</li> <li>• Analyzing functions</li> <li>• Templates</li> <li>• Reporting functions</li> <li>• Data exchange</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>• System set up</li> <li>• Data import</li> <li>• Data analysis</li> <li>• Creating templates</li> <li>• Creating reports</li> <li>• Exporting data</li> <li>• Triggering</li> </ul>	
Course information	
Available languages	English, French, German, other languages upon request
Target group	<ul style="list-style-type: none"> <li>• Persons interested in, or users, of the specific software.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Consultants interested in reporting</li> <li>• Building inspectors with reporting needs</li> <li>• R&amp;D staff interested in advanced data analysis</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Laptop with installed software full version or 30 day demo (download on <a href="http://www.flir.com">www.flir.com</a>)</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic knowledge about thermography and related parameters.</li> </ul>
Course details	
Duration	Depends on software.
Structure	Short system introduction, then demos and practical exercises.

**P/N: ITC-SOW-0009**

© 2015, FLIR Systems, Inc.  
#ITC-SOW-0009; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	Software courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Software courses are lectured by ITC qualified instructors experienced in usage of the software being subject of the class.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm

**P/N: ITC-SOW-0009**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0009; r. 23306; en-US

- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°

**P/N: ITC-SOW-0009**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0009; r. 23306; en-US

- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-1001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	1 day
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-1001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1001; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-1001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1001; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-1001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1001; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display



## P/N: ITC-EXP-1009

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1009  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	1 day
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-1009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1009; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-1009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1009; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-1009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1009; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-2001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	2 days
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-2001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2001; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-2001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2001; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-2001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2001; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display



## P/N: ITC-EXP-2009

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2009  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	2 days
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-2009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2009; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-2009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2009; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-2009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2009; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-3001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-3001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	3 days
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-3001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3001; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-3001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3001; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-3001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3001; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display



## P/N: ITC-EXP-3009

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-3009  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	3 days
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-3009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3009; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-3009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3009; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-3009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3009; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

# Accessories for FLIR Ex series

---

## P/N: T198528

### Copyright

© 2015, FLIR Systems, Inc.

All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198528

Commit: 23306

Language: en-US

Modified: 2015-02-23 15:46

Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.

27700 SW Parkway Ave.

Wilsonville, OR 97070

USA

Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Hard transport case for FLIR Ex-series	
Physical data	
Weight	1.75 kg (3.86 lb.)
Size (L × W × H)	303 × 206 × 128 mm (11.9 × 18.1 × 5.0 in.)
Color	Black
Shipping information	
Packaging, weight	1.750 kg
Packaging, size	303 × 206 × 128 mm
EAN-13	7332558004913 4743254001022 (Estonia plant)
UPC-12	845188004873
Country of origin	Estonia

### Compatible with the following products

- 63901-0101; FLIR E4
- 63905-0501; FLIR E5
- 63902-0202; FLIR E6
- 63903-0303; FLIR E8

## P/N: T198530

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198530  
Commit: 23869  
Language: en-US  
Modified: 2015-03-10 13:35  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
High capacity battery for the IR camera.	
Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	3.7 V
Battery capacity	2.6 Ah at +20°C (+68°F)
Battery note	Approximate lithium content: 0.7 g
Charging system	Battery is charged inside the camera or in separate charger
Charging temperature	0°C to +45°C (+32°F to +113°F)
Environmental data	
Battery storage temperature range	-40°C to +70°C (-40°F to +158°F)
Shipping information	
Packaging, weight	0.125 kg
Packaging, size	170 × 75 × 65 mm
EAN-13	7332558004890 4743254001046 (Estonia plant)
UPC-12	845188004897
Country of origin	Estonia

### Compatible with the following products

- 63901-0101; FLIR E4
- 63905-0501; FLIR E5
- 63902-0202; FLIR E6
- 63903-0303; FLIR E8

## P/N: T198531

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198531  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Battery charger incl. power supply.	
Power system	
AC operation	90–264 VAC, 50/60 Hz, output 5.0 VDC, 2.1 A
Power	10.5 W
Physical data	
Size (L × W × H)	58.0 × 38.0 × 31.0 mm (2.3 × 1.5 × 1.2 in.)
Battery charger size (L × W × H)	82.0 × 56.0 × 64.0 mm (3.2 × 2.2 × 2.5 in.)
Cable length	1.2 m (3.9 ft.)
Shipping information	
Packaging, weight	0.375 kg
Packaging, size	160 × 135 × 70 mm
EAN-13	7332558004883 4743254001053 (Estonia plant)
UPC-12	845188004903
Country of origin	Estonia

### Compatible with the following products

- 63901-0101; FLIR E4
- 63905-0501; FLIR E5
- 63902-0202; FLIR E6
- 63903-0303; FLIR E8



## P/N: T198532

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198532  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This cable is used to power the infrared camera from the 12 V socket in a car.	
Power system	
Voltage	Input: 12/24 V Output: 5 V
Physical data	
Cable length	1 m (3.3 ft.)
Color	Black
Shipping information	
Packaging, weight	0.175 kg
Packaging, size	170 × 75 × 65 mm
EAN-13	7332558004876 4743254001060 (Estonia plant)
UPC-12	845188004910
Country of origin	Estonia

### Compatible with the following products

- 63901-0101; FLIR E4
- 63905-0501; FLIR E5
- 63902-0202; FLIR E6
- 63903-0303; FLIR E8

## P/N: T198534

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198534  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Power supply USB-micro.	
Power system	
AC operation	90–264 VAC, 50/60 Hz, output 5.0 VDC, 2.1 A
Power	10.5 W
Physical data	
Size (L × W × H)	58.0 × 38.0 × 31.0 mm (2.3 × 1.5 × 1.2 in.)
Cable length	1.2 m (3.9 ft.)
Shipping information	
Packaging, weight	0.200 kg
Packaging, size	170 × 75 × 65 mm
EAN-13	7332558004852 4743254001084 (Estonia plant)
UPC-12	845188004934
Country of origin	Estonia

### Compatible with the following products

- 63901-0101; FLIR E4
- 63905-0501; FLIR E5
- 63902-0202; FLIR E6
- 63903-0303; FLIR E8

## P/N: T198529

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198529  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Pouch, including shoulder strap, for FLIR Ex and ix series.	
Physical data	
Size (L x W x H)	270.0 x 145.0 x 115.0 mm (10.6 x 5.7 x 4.5 in.)
Color	Black
Shipping information	
List of contents	<ul style="list-style-type: none"><li>• Pouch</li><li>• Shoulder strap</li></ul>
Packaging, weight	0.530 kg
Packaging, size	303 x 206 x 128 mm
EAN-13	7332558004906 4743254001039 (Estonia plant)
UPC-12	845188004880
Country of origin	Estonia

### Compatible with the following products

- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 63901-0101; FLIR E4
- 63905-0501; FLIR E5
- 63902-0202; FLIR E6
- 63903-0303; FLIR E8

## P/N: T198533

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198533  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This cable is used to connect the infrared camera with a computer, using the USB protocol.	
Physical data	
Weight	60 g (2.1 oz.)
Cable length	1.8 m (5.9 ft.)
Connector	Standard USB-A to USB Micro-B
Shipping information	
Packaging, weight	0.100 kg
Packaging, size	170 × 75 × 65 mm
EAN-13	7332558004869 4743254001077 (Estonia plant)
UPC-12	845188004927
Country of origin	Estonia

### Compatible with the following products

- 63901-0101; FLIR E4
- 63905-0501; FLIR E5
- 63902-0202; FLIR E6
- 63903-0303; FLIR E8

**P/N: T198583**

## Copyright

© 2015, FLIR Systems, Inc.

All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: T198583

Commit: 25121

Language: en-US

Modified: 2015-04-29 09:50

Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.

27700 SW Parkway Ave.

Wilsonville, OR 97070

USA

Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

Compared to FLIR Tools, FLIR Tools+ has the following features:

- Radiometric Panorama incl. MSX
- Radiometric IR Video Recording
- Advanced Reporting

FLIR Tools/Tools+ is a software suite specifically designed to provide an easy way to update your camera and create inspection reports.

FLIR Tools+ main features:

- Manual IR/Visual Image Grouping
- Radiometric Panorama incl. MSX
- Radiometric IR Video Recording
- Advanced Reporting - Microsoft Office 2007 (32bit), and 2010 (32bit) support
- Report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR).
- Import images from your camera to your computer.
- Apply filters when searching for images.
- Search all text in images and text annotations.
- Store the five latest search criteria's.
- Lay out, move, and resize measurement tools on any infrared image.
- Create PDF imagesheets of any images of your choice.
- Add headers, footers, and logos to imagesheets.
- Create PDF reports for images of your choice.
- Add headers, footers, and logos to reports.
- Report editor (report page preview and snap to grid).
- Sort function (by date, groups sorted by path, and groups sorted by date).
- Browse and purchase infrared cameras, software, and accessories in the webshop.
- Software localized to 21 languages.
- Support for MSX (Multi-Spectral Dynamic Imaging ) Images
- Support for Sketch Images on both IR and Visual with toggling ON/OFF feature.
- Support for Same FOV ( Field of View Match )
- Display of Compass Information in Edit and in Report.
- Display of GPS Information in Edit and in Report.
- Microsoft Windows 7 (32- and 64-bit) and Windows 8 (32- and 64-bit)
- Camera update (applies to FLIR Ex, Kxx, Exx and T6xx series only).

## Download

Download a 30-day evaluation version here:

<http://support.flir.com/toolsplus>

## Release notes

Version	5.2
New features in version 5.2	<ul style="list-style-type: none"> <li>• Support for auto-adjusting a region.</li> <li>• Support for zoom.</li> <li>• Express Microsoft Word reporting (*.docx).</li> <li>• Various bug fixes.</li> </ul>

**P/N: T198583**

© 2015, FLIR Systems, Inc.  
#T198583; r. 25121; en-US

Release notes	
New features in version 5.1	<ul style="list-style-type: none"> <li>Improved import performance.</li> <li>Added support for video recording settings for FLIR Kxx series.</li> <li>Added support for importing video files from FLIR Kxx series.</li> <li>Added support for FLIR C2 camera.</li> <li>Various bug fixes.</li> </ul>
New features in version 5.0	<ul style="list-style-type: none"> <li>Local object parameters for measurement tools.</li> <li>Save a report in-process with the ability to edit at a later time.</li> <li>Pull-down menus for text annotations.</li> <li>Variable playback speed for recordings.</li> <li>Show or hide min./max./avg. temperature, and hot/cold markers, for areas and lines.</li> <li>Smoother display for low-resolution images.</li> <li>UltraMax image enhancement.</li> <li>Dropping support for Windows XP.</li> <li>Various bug fixes.</li> </ul>
New features in version 4.1	<ul style="list-style-type: none"> <li>Previous/next in Edit mode.</li> <li>Clone in the Library.</li> <li>Extract visual photo from a multispectral image.</li> <li>Import *.mp4, *.seq, and *.csq files from the camera.</li> <li>Playback/edit *.seq and *.csq files.</li> <li>Scale enhancement for the FLIR GF3xx series.</li> <li>Auto resize of thumbnails during importing for the FLIR T6xx series.</li> <li>Grouping/ungrouping now added.</li> <li>Various bug fixes.</li> </ul>
New features in version 4.0	<ul style="list-style-type: none"> <li>Support for the new FLIR Ex and Exx series cameras.</li> <li>Interactive quick start guide when connecting a FLIR camera.</li> <li>Improved library view.</li> <li>Support for multispectral images.</li> <li>Support for auto-oriented images.</li> <li>Various bug fixes.</li> </ul>
New features in version 3.1	<ul style="list-style-type: none"> <li>Support for FLIR K series cameras.</li> <li>Interactive quick start guide when connecting a FLIR K series camera.</li> <li>Live image streaming from FLIR K series cameras.</li> <li>PC-side configuration of FLIR K series cameras.</li> <li>New report templates for DC images only added.</li> <li>Various bug fixes.</li> </ul>
New features in version 3.0	<ul style="list-style-type: none"> <li>Add folder to library.</li> <li>Support for isotherms and color alarms</li> <li>Image description for both IR and DC.</li> <li>Export functionality (*.avi, *.csv).</li> <li>Microsoft Windows 8 (32- and 64-bit)</li> <li>New web installer</li> <li>Radiometric panorama with MSX images.</li> <li>Advanced reports.</li> <li>Manual grouping/ungrouping of images.</li> <li>Various bug fixes.</li> </ul>
New features in version 2.2	<ul style="list-style-type: none"> <li>Camera tab: <ul style="list-style-type: none"> <li>Logging feature in Camera Tab</li> <li>Recording and playback of SEQ files.</li> </ul> </li> <li>Various bug fixes.</li> </ul>
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>FLIR Tools+ scratchcard</li> </ul>
Packaging, weight	0.059 kg (0.13 lb.)

**P/N: T198583**

© 2015, FLIR Systems, Inc.  
#T198583; r. 25121; en-US

Shipping information	
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	73325585378 4743254001442 (Estonia plant)
UPC-12	845188005580
Country of origin	Sweden
System requirements	
Operating system	<ul style="list-style-type: none"> <li>• Windows XP, 32-bit</li> <li>• Windows Vista, 32-bit</li> <li>• Windows 7, 32-bit</li> <li>• Windows 7, 64-bit</li> <li>• Windows 8, 32-bit</li> <li>• Windows 8, 64-bit</li> </ul>
Software requirements	<ul style="list-style-type: none"> <li>• Office 2007, 32-bit</li> <li>• Office 2010, 32-bit</li> <li>• Office 2013, 32-bit</li> </ul>

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)

**P/N: T198583**

© 2015, FLIR Systems, Inc.  
#T198583; r. 25121; en-US

- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens



**P/N: T198583**

© 2015, FLIR Systems, Inc.  
#T198583; r. 25121; en-US

- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 63901-0101; FLIR E4
- 63905-0501; FLIR E5
- 63902-0202; FLIR E6
- 63903-0303; FLIR E8

## P/N: T199806

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T199806  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The Extended Warranty Package covers parts and labour for your IR camera, consumables not included.

FLIR Systems warrants its products to be free from defects caused by faulty material or poor workmanship, for a period specified above. **NO PRODUCT IS WARRANTED TO BE MERCHANTABLE OR FIT FOR ANY PARTICULAR USE OR APPLICATION.** The warranty is void if the buyer damages the item due to misuse, abuse, modification, processing, or integration with other items. FLIR Systems' maximum liability under this warranty is limited to the obligation to replace or, at its sole option, to credit Buyer's account up to the purchase price.

### Download

Contact info can be found at:

<http://support.flir.com>

### Compatible with the following products

- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 63901-0101; FLIR E4
- 63905-0501; FLIR E5
- 63902-0202; FLIR E6
- 63903-0303; FLIR E8

# Accessories for FLIR Exx series

---

## P/N: T911093

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T911093  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Tool belt for FLIR camera pouches.	
Physical data	
Weight	0.117 kg (0.26 lb.)
Length	1.44 m (4.7 ft.)
Color	Black
Shipping information	
Packaging, type	Cardboard box
List of contents	• Tool belt
Packaging, weight	0.318 kg (0.7 lb.)
Packaging, size	243 × 165 × 82 mm (9.6 × 6.5 × 3.2 in.)
EAN-13	7332558003442 4743254000384 (Estonia plant)
UPC-12	845188003210
Country of origin	Estonia

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)

**P/N: T911093**

© 2015, FLIR Systems, Inc.  
#T911093; r. 23306; en-US

- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 63901-0101; FLIR E4
- 63905-0501; FLIR E5
- 63902-0202; FLIR E6
- 63903-0303; FLIR E8

## P/N: T198125

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198125  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Stand-alone 2-bay battery charger, including power supply with multi plugs.	
Power system	
AC operation	100–240 VAC, 50/60 Hz, 12 VDC out
Power	3000 mA at 12 VDC
Physical data	
Size (L x W x H)	133 x 86 x 51 mm (5.3 x 3.4 x 2.0 in.)
Cable length	1.98 m (6.5 ft.)
Shipping information	
List of contents	<ul style="list-style-type: none"> <li>• Stand-alone 2-bay battery charger</li> <li>• Power supply including cable</li> <li>• EU plug</li> <li>• UK plug</li> <li>• US plug</li> <li>• AU plug</li> </ul>
Packaging, weight	0.65 kg
Packaging, size	245 x 165 x 80 mm
EAN-13	7332558003497 4743254000513 (Estonia plant)
UPC-12	845188003487
Country of origin	Estonia

### Compatible with the following products

- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72201-0106; FLIR K45
- 72201-0206; FLIR K55

## P/N: T198341ACC

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198341ACC  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Rugged, watertight plastic shipping case for FLIR Exx series. Holds all items neatly and securely. The case can be locked with padlocks and features a membrane to prevent pressure build-up in airplane cargo holds.

### Physical data

Weight	2.65 kg (5.84 lb.)
Size (L × W × H)	484 × 345 × 178 mm (19.1 × 13.6 × 7.0 in.)
Material	PP with Rubber Blend (Polypropylene)
Color	Black

### Shipping information

List of contents	• Transport case Exx
Packaging, weight	3.05 kg (6.72 lb.)
Packaging, size	505 × 365 × 185 mm (19.9 × 14.4 × 7.3 in.)
EAN-13	4743254001541
UPC-12	845188008819
Country of origin	Estonia

### Compatible with the following products

## P/N: T198487

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198487  
Commit: 23870  
Language: en-US  
Modified: 2015-03-10 13:35  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
High capacity battery for the IR camera.	
Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	3.7 V
Battery capacity	4.4 Ah, at +20°C (+68°F)
Charging temperature	0°C to +45°C (+32°F to +113°F)
Environmental data	
Battery storage temperature range	-40°C to +70°C (-40°F to +158°F)
Physical data	
Weight	0.11 kg (0.24 lb.)
Size (L x W x H)	78 x 40 x 22 mm (3.1 x 1.6 x 0.9 in.)
Shipping information	
Packaging, weight	0.15 kg
Packaging, size	170 x 75 x 60 mm
EAN-13	7332558004548 4743254000773 (Estonia plant)
UPC-12	845188004514
Country of origin	Estonia

### Compatible with the following products

- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)



## P/N: T198484

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198484  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Pouch, including shoulder strap, for FLIR Exx series.	
Physical data	
Color	Black
Shipping information	
List of contents	<ul style="list-style-type: none"><li>Pouch</li><li>Shoulder strap</li></ul>
Packaging, weight	0.135 kg
Packaging, size	303 × 206 × 128 mm
EAN-13	7332558004579 4743254000803 (Estonia plant)
UPC-12	845188004552
Country of origin	Estonia

### Compatible with the following products

- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: T198486

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198486  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Tripod adapter, necessary accessory to be able to mount the camera on a tripod.	
Physical data	
Size (L x W x H)	62x 50 x 23 mm (2.5 x 2.0 x 0.9 in.)
Color	Black
Shipping information	
List of contents	• Tripod Adapter
Packaging, weight	0.040 kg
Packaging, size	170 x 75 x 60 mm
EAN-13	7332558004593 4743254000780 (Estonia plant)
UPC-12	845188004569
Country of origin	Estonia

### Compatible with the following products

- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: T198485

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198485  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Sunshield for the FLIR Exx series, to increase visibility of the LCD.	
Physical data	
Size (L x W x H)	40 x 74 x 70 mm (1.6 x 2.9 x 2.8 in.)
Material	Plastic
Color	Black
Shipping information	
List of contents	• Sun shield
Packaging, weight	0.030 kg
Packaging, size	170 x 75 x 60 mm
EAN-13	7332558004586 4743254000797 (Estonia plant)
UPC-12	845188004538
Country of origin	Estonia

### Compatible with the following products

- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: 19250-100

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 19250-100  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This device is a viewport which consist of a crystal "glass" window, mounted in an aluminum frame. The glass is specially formulated to allow transmission of infrared light to allow use of infrared thermal sensing equipment without opening the enclosure. This device is intended for installation in doors or walls of electrical enclosures without compromising the integrity of the enclosure.	
Power system	
Voltage	Any range
Environmental data	
Environment	Indoor/outdoor type 4/12
Operating temperature range	Maximum: 260°C (500°F)
Storage temperature range	Optics, maximum: 1357°C (2474°F)
Physical data	
Size (L x W x H)	25.5 x 73 x 86 mm (1.0 x 2.87 x 3.36 in.)
Viewing aperture diameter	45 mm (1.77 in.)
Material	Optics: CaF2 (Calcium Fluoride Crystal) Body: Anodized aluminum Hardware: steel
Comments to physical data	Required hole diameter, nominal: 60.3 mm (2.375 in.) Greenlee Punch: 76BB Maximum pullout strength: 658 kg (1450 lb.)
Lens	
Waveband	Broadband IR: short-, mid-, and longwave
Visible light spectrum	Yes
Certifications	
Certification	UL, IP67, NEMA Type 4/12, CSA
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>IR window</li> <li>Case</li> <li>Mounting instruction</li> <li>Additional safety screw</li> </ul>
Packaging, weight	0.24 kg (0.53 lb.)
Packaging, size	120 x 115 x 40 mm (4.7 x 4.5 x 1.6 in.)
EAN-13	4743254000728
UPC-12	845188002817
Country of origin	Estonia



IR Window 2 in

---

**P/N: 19250-100**

© 2015, FLIR Systems, Inc.  
#19250-100; r. 23306; en-US

**Supplies & accessories:**

## P/N: 19251-100

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 19251-100  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This device is a viewport which consist of a crystal "glass" window, mounted in an aluminum frame. The glass is specially formulated to allow transmission of infrared light to allow use of infrared thermal sensing equipment without opening the enclosure. This device is intended for installation in doors or walls of electrical enclosures without compromising the integrity of the enclosure.	
Power system	
Voltage	Any range
Environmental data	
Environment	Indoor/outdoor type 4/12
Operating temperature range	Maximum: 260°C (500°F)
Storage temperature range	Optics, maximum: 1357°C (2474°F)
Physical data	
Size (L × W × H)	26.9 × 99 × 107 mm (1.05 × 3.89 × 4.22 in.)
Viewing aperture diameter	69 mm (2.71 in.)
Material	Optics: CaF <sub>2</sub> (Calcium Fluoride Crystal) Body: Anodized aluminum Hardware: steel
Comments to physical data	Required hole diameter, nominal: 88.9 mm (3.5 in.) Greenlee Punch: 739BB Maximum pullout strength: 1656 kg (3650 lb.)
Lens	
Waveband	Broadband IR: short-, mid-, and longwave
Visible light spectrum	Yes
Certifications	
Certification	UL, IP67, NEMA Type 4/12, CSA
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>IR window</li> <li>Case</li> <li>Mounting instruction</li> <li>Additional safety screw</li> </ul>
Packaging, weight	0.39 kg (0.86 lb.)
Packaging, size	130 × 140 × 40 mm (5.12 × 5.51 × 1.58 in.)
EAN-13	4743254000735
UPC-12	845188002824
Country of origin	Estonia



IR Window 3 in.

---

**P/N: 19251-100**

© 2015, FLIR Systems, Inc.  
#19251-100; r. 23306; en-US

**Supplies & accessories:**

## P/N: 19252-100

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 19252-100  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This device is a viewport which consist of a crystal "glass" window, mounted in an aluminum frame. The glass is specially formulated to allow transmission of infrared light to allow use of infrared thermal sensing equipment without opening the enclosure. This device is intended for installation in doors or walls of electrical enclosures without compromising the integrity of the enclosure.	
Power system	
Voltage	Any range
Environmental data	
Environment	Indoor/outdoor type 4/12
Operating temperature range	Maximum: 260°C (500°F)
Storage temperature range	Optics, maximum: 1357°C (2474°F)
Physical data	
Size (L x W x H)	29.3 x 127 x 137 mm (1.15 x 5.01 x 5.37 in.)
Viewing aperture diameter	89 mm (3.50 in.)
Material	Optics: CaF2 (Calcium Fluoride Crystal) Body: Anodized aluminum Hardware: steel
Comments to physical data	Required hole diameter, nominal: 114.3 mm (4.5 in.) Greenlee Punch: 742BB Maximum pullout strength: 1678 kg (3700 lb.)
Lens	
Waveband	Broadband IR: short-, mid-, and longwave
Visible light spectrum	Yes
Certifications	
Certification	UL, IP67, NEMA Type 4/12, CSA
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>IR window</li> <li>Case</li> <li>Mounting instruction</li> <li>Additional safety screw</li> </ul>
Packaging, weight	0.46 kg (1.01 lb.)
Packaging, size	165 x 175 x 40 mm (6.50 x 6.89 x 1.58 in.)
EAN-13	4743254000742
UPC-12	845188002831
Country of origin	Estonia





IR Window 4 in.

---

**P/N: 19252-100**

© 2015, FLIR Systems, Inc.  
#19252-100; r. 23306; en-US

**Supplies & accessories:**

## P/N: 19250-200

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 19250-200  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Part name	IRW-2S
Material number	19250-200
Part description	Stainless steel IR window, 2" diameter
This device is a viewport that consist of a crystal "glass" window mounted in an aluminum frame. The glass is specially formulated to allow transmission of infrared (IR) light to allow use of IR thermal sensing equipment without opening the enclosure. This device is intended for installation in doors or walls of electrical enclosures without compromising the integrity of the enclosure.	
<b>Power system</b>	
Voltage	Any range
<b>Lens</b>	
Waveband	Broadband IR: short-, mid-, and longwave
Visible light spectrum	Yes
<b>Certifications</b>	
Certifications	UL, IP67, NEMA Type 4/12, CSA
<b>Physical data</b>	
Weight	0.5 kg (1 lb.)
Dimensions (H x W x L)	26.9 mm x 99 mm x 107 mm (1.05" x 3.89" x 4.22")
Material	Optics: CaF <sub>2</sub> (calcium fluoride crystal). Body: stainless steel AISI 316. Hardware: steel
Color	Metallic silver
<b>Shipping information</b>	
Packaging type	Color box
Packaging contents	<ul style="list-style-type: none"> <li>IR window</li> <li>Case</li> <li>Mounting instructions</li> <li>Additional safety screw</li> </ul>
Unit weight	0.54 kg (1.2 lb)
Each dimensions (H x W x L)	38.1 mm x 107.95 mm x 127 mm (1.5" x 4.25" x 5")
EAN-13	4743254001510
UPC-12	845188007584
Country of origin	Estonia
Tariff Code	9027.90.5450



---

**P/N: 19250-200**

© 2015, FLIR Systems, Inc.  
#19250-200; r. 23306; en-US

---

Technical support	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>

**Supplies and accessories**

## P/N: 19251-200

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 19251-200  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Part name	IRW-3S
Material number	19251-200
Part description	Stainless steel IR window, 3" diameter
This device is a viewport that consist of a crystal "glass" window mounted in an aluminum frame. The glass is specially formulated to allow transmission of infrared (IR) light to allow use of IR thermal sensing equipment without opening the enclosure. This device is intended for installation in doors or walls of electrical enclosures without compromising the integrity of the enclosure.	
<b>Power system</b>	
Voltage	Any range
<b>Environmental</b>	
Environment	Indoor/outdoor type 4/12
Operating temperature range	Maximum: 260°C (500°F)
Storage temperature range	Optics, maximum: 1357°C (2474°F)
<b>Certifications</b>	
Certifications	UL, IP67, NEMA Type 4/12, CSA
<b>Physical data</b>	
Weight:	0.7 kg (1.55 lb.)
Dimensions (H x W x L)	26.9 mm x 99 mm x 107 mm (1.05" x 3.89" x 4.22")
Material	Optics: CaF <sub>2</sub> (calcium fluoride crystal). Body: stainless steel AISI 316. Hardware: steel
Color	Metallic silver
<b>Lens</b>	
Waveband	Broadband IR: short-, mid-, and longwave
Visible light spectrum	Yes
<b>Shipping information</b>	
Packaging type	Color box
Packaging contents	<ul style="list-style-type: none"> <li>IR window</li> <li>Case</li> <li>Mounting instruction</li> <li>Additional safety screw</li> </ul>
Unit weight	0.77 kg ( 1.7 lb.)



## SS IR window 3"

### P/N: 19251-200

© 2015, FLIR Systems, Inc.  
#19251-200; r. 23306; en-US

Shipping information	
Unit dimensions (H × W × L)	38.1 mm × 127 mm × 139.7 mm (1.5" × 5" × 5.5")
EAN-13	4743254001527
UPC-12	845188007591
Country of origin	Estonia
Tariff code	9027.90.5450
Technical support	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>

### Supplies and accessories

## P/N: 19252-200

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 19252-200  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Part name	IRW-4S
Material number	19252-200
Part description	Stainless steel IR window, 4" diameter
This device is a viewport that consist of a crystal "glass" window mounted in an aluminum frame. The glass is specially formulated to allow transmission of infrared (IR) light to allow use of IR thermal sensing equipment without opening the enclosure. This device is intended for installation in doors or walls of electrical enclosures without compromising the integrity of the enclosure.	
<b>Power system</b>	
Voltage	Any range
<b>Environmental</b>	
Environment	Indoor/outdoor type 4/12
Operating temperature range	Maximum: 260°C (500°F)
Storage temperature range	Optics, maximum: 1357°C (2474°F)
<b>Certifications</b>	
Certifications	UL, IP67, NEMA Type 4/12, CSA
<b>Physical data</b>	
Weight:	1.18 kg (2.6 lb.)
Dimensions (H × W × L)	26.9 mm × 99 mm × 107 mm (1.05" × 3.89" × 4.22")
Material	Optics: CaF <sub>2</sub> (calcium fluoride crystal). Body: stainless steel AISI 316. Hardware: steel
Color	Metallic silver
<b>Lens</b>	
Waveband	Broadband IR: short-, mid-, and longwave
Visible light spectrum	Yes
<b>Shipping information</b>	
Packaging type	Color box
Packaging contents	<ul style="list-style-type: none"> <li>IR window</li> <li>Case</li> <li>Mounting instruction</li> <li>Additional safety screw</li> </ul>
Unit weight	1.32 kg ( 2.9 lb.)
Unit dimensions (H × W × L)	38.1 mm × 165.1 mm × 177.8 mm ( 1.5" × 6.5" × 7")
EAN-13	4743254001534
UPC-12	845188007607



## SS IR window 4"

**P/N: 19252-200**

© 2015, FLIR Systems, Inc.  
#19252-200; r. 23306; en-US

Shipping information	
Country of origin	Estonia
Tariff code	9027.90.5450
Technical support	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>

### Supplies and accessories

## P/N: 1196961

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1196961  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
The 15° lens is a popular lens accessory and provides 1.7× magnification compared to the standard lens. Ideal for small or distant targets such as overhead power lines.	
Imaging and optical data	
Field of view (FOV)	15° × 11.25°
Minimum focus distance	1.2 m (3.93 ft.)
Focal length	30.38 mm (1.2 in.)
Spatial resolution (IFOV)	Depends on the IR resolution of the camera: 1.65 mrad for 160 × 120 pixels 1.32 mrad for 200 × 150 pixels 1.10 mrad for 240 × 180 pixels 0.82 mrad for 320 × 240 pixels
F-number	1.3
Physical data	
Weight	0.092 kg (0.203 lb.), incl. two lens caps
Size (L × D)	24 × 58 mm (1.0 × 2.3 in.)
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Lens</li> <li>• Lens case</li> </ul>
Packaging, weight	0.32 kg (0.71 lb.)
Packaging, size	172 × 131 × 133 mm (6.8 × 5.2 × 5.2 in.)
EAN-13	7332558001134 4743254000889 (Estonia plant)
UPC-12	845188000127
Country of origin	Sweden

### Compatible with the following products

- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)



---

**P/N: 1196961**

© 2015, FLIR Systems, Inc.  
#1196961; r. 23380; en-US

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: 1196960

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1196960  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This wide angle lens has a field of view almost double that of the standard lens. Perfect for wide or tall targets or when working in crowded spaces.	
Imaging and optical data	
Field of view (FOV)	45° × 33.8°
Minimum focus distance	0.20 m (0.66 ft.)
Focal length	9.66 mm (0.38 in.)
Spatial resolution (IFOV)	Depends on the IR resolution of the camera: 5.18 mrad for 160 × 120 pixels 4.14 mrad for 200 × 150 pixels 3.45 mrad for 240 × 180 pixels 2.59 mrad for 320 × 240 pixels
F-number	1.3
Physical data	
Weight	0.105 kg (0.231 lb.), incl. two lens caps
Size (L × D)	38 × 47 mm (1.5 × 1.9 in.)
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Lens</li> <li>• Lens case</li> </ul>
Packaging, weight	0.33 kg (0.73 lb.)
Packaging, size	172 × 131 × 133 mm (6.8 × 5.2 × 5.2 in.)
EAN-13	7332558001141 4743254000834 (Estonia plant)
UPC-12	845188000134
Country of origin	Sweden

### Compatible with the following products

- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)

**P/N: 1196960**

© 2015, FLIR Systems, Inc.  
#1196960; r. 23380; en-US

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: T910814

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T910814  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
FLIR P/B/SC6xx and FLIR GF3xx series:	
Power supply, including multiple plugs, to charge the battery when it is inside or outside of the camera.	
FLIR T6xx and FLIR Exx series:	
Power supply, including multiple plugs, to charge the battery when it is inside the camera or in the battery charger.	
Power system	
AC operation	100–240 VAC, 50/60 Hz, 12 VDC out
Power	3000 mA at 12 VDC
Physical data	
Cable length	1.98 m (6.5 ft.)
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Power supply including cable</li> <li>EU plug</li> <li>UK plug</li> <li>US plug</li> <li>AU plug</li> </ul>
Packaging, weight	0.324 kg (9.7 lb.)
Packaging, size	152 × 78 × 73 mm (6.0 × 3.1 × 2.9 in.)
EAN-13	7332558003794 4743254001763 (Estonia plant)
UPC-12	845188002145
Country of origin	Sweden

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)

**P/N: T910814**

© 2015, FLIR Systems, Inc.  
#T910814; r. 23306; en-US

- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)



Power supply, incl. multi plugs

---

**P/N: T910814**

© 2015, FLIR Systems, Inc.  
#T910814; r. 23306; en-US

- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: T198509

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198509  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This cable is used to power the infrared camera from the cigarette lighter socket in a car.	
Note: This is the same product as p/n 1196497.	
Physical data	
Cable length	1.2 m (3.9 ft).
Shipping information	
Packaging, type	Cardboard box
Packaging, weight	0.125 kg (0.28 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558004340 4743254001435 (Estonia plant)
UPC-12	845188004361
Country of origin	Sweden

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)

**P/N: T198509**

© 2015, FLIR Systems, Inc.  
#T198509; r. 23306; en-US

- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72201-0106; FLIR K45
- 72201-0206; FLIR K55



## P/N: T911230ACC

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T911230ACC  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.

General description	
SD Card for data storage (e.g. images)	
Data communication interfaces	
Memory card, size	At least 4 GB
Physical data	
Weight	2 g (0.07 oz.)
Size (L x W x H)	32.0 x 24.0 x 2.1 mm (1.26 x 0.94 x 0.08 in.)
Shipping information	
Packaging, type	Cardboard box
List of contents	• SD Card
Packaging, weight	65 g (2.3 oz.)
Packaging, size	170 x 64 x 75 mm (6.69 x 2.52 x 2.95 in.)
EAN-13	7332558006221 4743254001503 (Estonia plant)
UPC-12	845188006570
Country of origin	Sweden

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)

**P/N: T911230ACC**

© 2015, FLIR Systems, Inc.  
#T911230ACC; r. 23306; en-US

- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

**P/N: 1910423**

**Copyright**

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

**Document identity**

Publ. No.: 1910423  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

**Corporate Headquarters**

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

**Website**

<http://www.flir.com>

**Customer support**

<http://support.flir.com>

**Disclaimer**

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This cable is used to connect the infrared camera with a computer, using the USB protocol.	
Physical data	
Weight	60 g (2.1 oz.)
Cable length	1.8 m (5.9 ft.)
Connector	Standard USB-A to USB Mini-B
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558003428
UPC-12	845188002176
Country of origin	Sweden

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)

**P/N: 1910423**

© 2015, FLIR Systems, Inc.  
#1910423; r. 23306; en-US

- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40



---

**P/N: 1910423**

© 2015, FLIR Systems, Inc.  
#1910423; r. 23306; en-US

- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72201-0106; FLIR K45
- 72201-0206; FLIR K55

## P/N: 1910582ACC

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1910582ACC  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This cable is used to transfer video signals from the infrared camera to an external monitor, or to a computer featuring an internal video card.

### Physical data

Cable length	1.9 m (6.2 ft.)
Connector	3.5 mm (four pin) plug to RCA (red, white, yellow)

### Shipping information

Packaging, type	Cardboard box
Packaging, weight	168 g (5.9 oz.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558006269
UPC-12	845188006617
Country of origin	Sweden

### Compatible with the following products

- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: T197771ACC

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197771ACC  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Headset with Bluetooth for wireless connection with the infrared camera.	
Data communication interfaces	
Bluetooth	Connection to the infrared camera
Audio	Headset including microphone
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Headset</li> <li>Ear clip</li> <li>Charger</li> <li>Multi plugs</li> <li>USB cable Std A to Mini-B</li> </ul>
Packaging, weight	278 g (9.8 oz.)
Packaging, size	183 × 136 × 63 mm (7.2 × 5.35 × 2.48 in.)
EAN-13	7332558006337
UPC-12	845188006686
Country of origin	Sweden

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)

**P/N: T197771ACC**

© 2015, FLIR Systems, Inc.  
#T197771ACC; r. 23306; en-US

- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)



**P/N: T198586**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: T198586  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

FLIR Reporter Professional is a powerful software for creating compelling and professional, fully customized, easy-to-interpret maintenance reports.

Professional Report Wizard guides you step-by-step in combining all IR inspection data - infrared and visual images, temperature measurements, and text notes – into a professional, easy-to-interpret maintenance report.

## Key features:

- Flexible report page design and layout for customized reports
- Use quick insert function to easily create custom report pages
- Fully integrated with standard Microsoft Word
- Generates reports in standard MS Office format and PDF-format
- Powerful temperature analysis
- Triple Fusion Picture-in-Picture (movable, sizable, scalable)
- Rapid report manager supporting automatic report generation by drag-and-drop
- Support for MSX (Multi-Spectral Dynamic Imaging) images
- Support for sketch images in both IR and visual with on/off toggling
- Support for same FOV ("Field of View Match")
- Grid settings
- Trending functionality
- Automatic link to Google™ Maps for images with GPS coordinates
- Automatic summary table for the report
- Fine tune images and make full temperature analysis directly in Microsoft Word
- Spell check
- Create your own formulas including measurement values from images
- Play radiometric sequences directly in the report
- Search functionality to quickly finding images for your report
- Panorama tool for combining several images to a larger image
- Support for GF series IR images
- Auto Update function
- Office 2003 (32-bit), Office 2007 (32-bit) and Office 2010 (32-bit)
- Windows 7 (32 and 64-bit), Windows Vista (32 and 64-bit)
- Support for METERLiNK™ data
- \*.docx compatibility

## Download

Download your copy of FLIR Reporter Professional here:

<http://support.flir.com/reporter>

**P/N: T198586**

© 2015, FLIR Systems, Inc.  
#T198586; r. 23306; en-US

Release notes	
Version	9.2
New features	<ul style="list-style-type: none"> <li>— News in 9.2: —</li> <li>Option to hide Zoom Viewer</li> <li>Option to extract Visual image from MSI/Fusion image.</li> <li>Support for the new FLIR Ex and Exx series cameras.</li> <li>Support for multispectral images.</li> <li>Support for auto-oriented images.</li> <li>Various bug fixes.</li> </ul>
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>FLIR Reporter Professional scratchcard</li> </ul>
Packaging, weight	0.135 kg (0.3 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005286 4743254001893 (Estonia plant)
UPC-12	845188005498
Country of origin	Sweden
System requirements	
Operating system	<ul style="list-style-type: none"> <li>Windows XP, 32-bit</li> <li>Windows Vista, 32-bit</li> <li>Windows Vista, 64-bit</li> <li>Windows 7, 32-bit</li> <li>Windows 7, 64-bit</li> </ul>
Software requirements	<ul style="list-style-type: none"> <li>Office 2007 (32-bit)</li> <li>Office 2010 (32-bit)</li> </ul>

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)

**P/N: T198586**

© 2015, FLIR Systems, Inc.  
#T198586; r. 23306; en-US

- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: T198586

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198586  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description
FLIR Reporter Professional is a powerful software for creating compelling and professional, fully customized, easy-to-interpret maintenance reports.
Professional Report Wizard guides you step-by-step in combining all IR inspection data - infrared and visual images, temperature measurements, and text notes – into a professional, easy-to-interpret maintenance report.
Key features:
<ul style="list-style-type: none"> <li>Flexible report page design and layout for customized reports</li> <li>Use quick insert function to easily create custom report pages</li> <li>Fully integrated with standard Microsoft Word</li> <li>Generates reports in standard MS Office format and PDF-format</li> <li>Powerful temperature analysis</li> <li>Triple Fusion Picture-in-Picture (movable, sizable, scalable)</li> <li>Rapid report manager supporting automatic report generation by drag-and-drop</li> <li>Support for MSX (Multi-Spectral Dynamic Imaging) images</li> <li>Support for sketch images in both IR and visual with on/off toggling</li> <li>Support for same FOV ("Field of View Match")</li> <li>Grid settings</li> <li>Trending functionality</li> <li>Automatic link to Google™ Maps for images with GPS coordinates</li> <li>Automatic summary table for the report</li> <li>Fine tune images and make full temperature analysis directly in Microsoft Word</li> <li>Spell check</li> <li>Create your own formulas including measurement values from images</li> <li>Play radiometric sequences directly in the report</li> <li>Search functionality to quickly finding images for your report</li> <li>Panorama tool for combining several images to a larger image</li> <li>Support for GF series IR images</li> <li>Auto Update function</li> <li>Office 2003 (32-bit), Office 2007 (32-bit) and Office 2010 (32-bit)</li> <li>Windows 7 (32 and 64-bit), Windows Vista (32 and 64-bit)</li> <li>Support for METERLiNK™ data</li> <li>*.docx compatibility</li> </ul>
Download
Download your copy of FLIR Reporter Professional here:
<a href="http://support.flir.com/reporter">http://support.flir.com/reporter</a>

**P/N: T198586**

© 2015, FLIR Systems, Inc.  
#T198586; r. 23306; en-US

Release notes	
Version	9.2
New features	<ul style="list-style-type: none"> <li>— News in 9.2: —</li> <li>Option to hide Zoom Viewer</li> <li>Option to extract Visual image from MSI/Fusion image.</li> <li>Support for the new FLIR Ex and Exx series cameras.</li> <li>Support for multispectral images.</li> <li>Support for auto-oriented images.</li> <li>Various bug fixes.</li> </ul>
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>FLIR Reporter Professional scratchcard</li> </ul>
Packaging, weight	0.135 kg (0.3 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005286 4743254001893 (Estonia plant)
UPC-12	845188005498
Country of origin	Sweden
System requirements	
Operating system	<ul style="list-style-type: none"> <li>Windows XP, 32-bit</li> <li>Windows Vista, 32-bit</li> <li>Windows Vista, 64-bit</li> <li>Windows 7, 32-bit</li> <li>Windows 7, 64-bit</li> </ul>
Software requirements	<ul style="list-style-type: none"> <li>Office 2007 (32-bit)</li> <li>Office 2010 (32-bit)</li> </ul>

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)

**P/N: T198586**

© 2015, FLIR Systems, Inc.  
#T198586; r. 23306; en-US

- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: T198584

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198584  
Commit: 25122  
Language: en-US  
Modified: 2015-04-29 09:51  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

FLIR Tools is a software suite specifically designed to provide an easy way to update your camera and create inspection reports.

#### Key features:

- Report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR).
- Manual IR/Visual Image Grouping
- Import images from your camera to your computer.
- Apply filters when searching for images.
- Search all text in images and text annotations.
- Store the five latest search criteria's.
- Lay out, move, and resize measurement tools on any infrared image.
- Create PDF imagesheets of any images of your choice.
- Add headers, footers, and logos to imagesheets.
- Create PDF reports for images of your choice.
- Add headers, footers, and logos to reports.
- Report editor (report page preview and snap to grid).
- Sort function (by date, groups sorted by path, and groups sorted by date).
- Browse and purchase infrared cameras, software, and accessories in the webshop.
- Software localized to 21 languages.
- Support for MSX (Multi-Spectral Dynamic Imaging ) Images
- Support for Sketch Images on both IR and Visual with toggling ON/OFF feature.
- Support for Same FOV ( Field of View Match )
- Display of Compass Information in Edit and in Report.
- Display of GPS Information in Edit and in Report.
- Microsoft Windows 7 (32- and 64-bit) and Windows 8 (32- and 64-bit)
- Camera update (applies to FLIR Ex, Kxx, Exx and T6xx series only).

### Download

This software is a freeware. To download, click the following link:

<http://support.flir.com/tools>

### Release notes

Version	5.2
New features in version 5.2	<ul style="list-style-type: none"> <li>• Support for auto-adjusting a region.</li> <li>• Support for zoom.</li> <li>• Various bug fixes.</li> </ul>
New features in version 5.1	<ul style="list-style-type: none"> <li>• Improved import performance.</li> <li>• Added support for video recording settings for FLIR Kxx series.</li> <li>• Added support for importing video files from FLIR Kxx series.</li> <li>• Added support for FLIR C2 camera.</li> <li>• Various bug fixes.</li> </ul>

**P/N: T198584**

© 2015, FLIR Systems, Inc.  
#T198584; r. 25122; en-US

Release notes	
New features in version 5.0	<ul style="list-style-type: none"> <li>Local object parameters for measurement tools.</li> <li>Save a report in-process with the ability to edit at a later time.</li> <li>Pull-down menus for text annotations.</li> <li>Variable playback speed for recordings.</li> <li>Show or hide min./max./avg. temperature, and hot/cold markers, for areas and lines.</li> <li>Smoother display for low-resolution images.</li> <li>UltraMax image enhancement.</li> <li>Dropping support for Windows XP.</li> <li>Various bug fixes.</li> </ul>
New features in version 4.1	<ul style="list-style-type: none"> <li>Previous/next in Edit mode.</li> <li>Clone in the Library.</li> <li>Extract visual photo from a multispectral image.</li> <li>Import *.mp4, *.seq, and *.csq files from the camera.</li> <li>Playback/edit *.seq and *.csq files.</li> <li>Scale enhancement for the FLIR GF3xx series.</li> <li>Auto resize of thumbnails during importing for the FLIR T6xx series.</li> <li>Grouping/ungrouping now added.</li> <li>Various bug fixes.</li> </ul>
New features in version 4.0	<ul style="list-style-type: none"> <li>Support for the new FLIR Ex and Exx series cameras.</li> <li>Interactive quick start guide when connecting a FLIR camera.</li> <li>Improved library view.</li> <li>Support for multispectral images.</li> <li>Support for auto-oriented images.</li> <li>Various bug fixes.</li> </ul>
New features in version 3.1	<ul style="list-style-type: none"> <li>Support for FLIR K series cameras.</li> <li>Interactive quick start guide when connecting a FLIR K series camera.</li> <li>Live image streaming from FLIR K series cameras.</li> <li>PC-side configuration of FLIR K series cameras.</li> <li>New report templates for DC images only added.</li> <li>Various bug fixes.</li> </ul>
New features in version 3.0	<ul style="list-style-type: none"> <li>Add folder to library.</li> <li>Support for isotherms and color alarms</li> <li>Image description for both IR and DC.</li> <li>Export functionality (*.avi, *.csv).</li> <li>Microsoft Windows 8 (32- and 64-bit)</li> <li>New web installer</li> <li>Various bug fixes.</li> </ul>
New features in version 2.2	<ul style="list-style-type: none"> <li>Camera tab: <ul style="list-style-type: none"> <li>Logging feature in Camera Tab</li> <li>Recording and playback of SEQ files.</li> </ul> </li> <li>Various bug fixes.</li> </ul>
New features in version 2.1	<ul style="list-style-type: none"> <li>New Text Comment Template Tab: <ul style="list-style-type: none"> <li>Create, Edit and Transfer templates to and from any FLIR Camera.</li> <li>Import and Export of Templates.</li> </ul> </li> <li>Support for MSX (Multi-Spectral Dynamic Imaging ) Images</li> <li>Support for Sketch Images on both IR and Visual with toggling ON/OFF feature.</li> <li>Support for Same FOV ( Field of View Match )</li> <li>Display of Compass Information in Edit and in Report.</li> <li>Display of GPS Information in Edit and in Report. <ul style="list-style-type: none"> <li>Direct Link to Google Maps for GPS Tagged images from Report.</li> </ul> </li> <li>Support for 3x5 and 6x5 A-series cameras</li> </ul>



**P/N: T198584**

© 2015, FLIR Systems, Inc.  
#T198584; r. 25122; en-US

Release notes	
New features in version 2.0	<ul style="list-style-type: none"> <li>Camera tab: <ul style="list-style-type: none"> <li>Camera connection with FLIR UVC cameras.</li> <li>Measurement data analysis.</li> <li>Plotting.</li> <li>Snapshot saving with text annotation and plot.</li> </ul> </li> <li>Performance improvement for large reports: can now create reports and imagesheets of up to 200 pages.</li> <li>Various bug fixes.</li> </ul>
New features in version 1.3	<ul style="list-style-type: none"> <li>Import from ix series cameras.</li> <li>Add and remove a form from a group.</li> <li>Text comments are now saved in the infrared image.</li> <li>The indexing engine can create groups from IR, DC, and text annotations when indexing the paths in the watch folder.</li> <li>Arrow tool in the report toolbar.</li> <li>Reorder pages.</li> <li>Text annotations can now be edited in the report.</li> <li>New report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR).</li> <li>New sample images.</li> </ul>
New features in version 1.2 SP1	<ul style="list-style-type: none"> <li>Various bug fixes.</li> </ul>
New features in version 1.2	<ul style="list-style-type: none"> <li>Search function: <ul style="list-style-type: none"> <li>Store the five latest search criterias.</li> <li>Search in all texts in images and text annotations.</li> </ul> </li> <li>Sort function: <ul style="list-style-type: none"> <li>By date.</li> <li>Groups sorted by by path.</li> <li>Groups sorted by date.</li> </ul> </li> <li>Report editor: <ul style="list-style-type: none"> <li>Report page preview.</li> <li>Snap to grid.</li> <li>Various bug fixes.</li> </ul> </li> </ul>
New features in version 1.1 SP1	<ul style="list-style-type: none"> <li>Extension to the camera update functionality.</li> <li>Various bug fixes</li> </ul>
New features in version 1.1	<ul style="list-style-type: none"> <li>Software localized to 21 languages.</li> <li>Camera update. (Exx, T6xx)</li> <li>Option to rotate an infrared image in the infrared editor.</li> </ul>

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Digital download, or</li> <li>CD-ROM</li> </ul>
Packaging, weight	0.106 kg (0.23 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005279
UPC-12	845188005481
Country of origin	Sweden

System requirements	
Operating system	<ul style="list-style-type: none"> <li>Windows XP, 32-bit</li> <li>Windows Vista, 32-bit</li> <li>Windows 7, 32-bit</li> <li>Windows 7, 64-bit</li> <li>Windows 8, 32-bit</li> <li>Windows 8, 64-bit</li> </ul>

**P/N: T198584**

© 2015, FLIR Systems, Inc.  
#T198584; r. 25122; en-US

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm

**P/N: T198584**

© 2015, FLIR Systems, Inc.  
#T198584; r. 25122; en-US

- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

**P/N: T198584**

© 2015, FLIR Systems, Inc.  
#T198584; r. 25122; en-US

- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72001-0101; FLIR C2

**P/N: T198583**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: T198583  
Commit: 25121  
Language: en-US  
Modified: 2015-04-29 09:50  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

Compared to FLIR Tools, FLIR Tools+ has the following features:

- Radiometric Panorama incl. MSX
- Radiometric IR Video Recording
- Advanced Reporting

FLIR Tools/Tools+ is a software suite specifically designed to provide an easy way to update your camera and create inspection reports.

FLIR Tools+ main features:

- Manual IR/Visual Image Grouping
- Radiometric Panorama incl. MSX
- Radiometric IR Video Recording
- Advanced Reporting - Microsoft Office 2007 (32bit), and 2010 (32bit) support
- Report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR).
- Import images from your camera to your computer.
- Apply filters when searching for images.
- Search all text in images and text annotations.
- Store the five latest search criteria's.
- Lay out, move, and resize measurement tools on any infrared image.
- Create PDF imagesheets of any images of your choice.
- Add headers, footers, and logos to imagesheets.
- Create PDF reports for images of your choice.
- Add headers, footers, and logos to reports.
- Report editor (report page preview and snap to grid).
- Sort function (by date, groups sorted by path, and groups sorted by date).
- Browse and purchase infrared cameras, software, and accessories in the webshop.
- Software localized to 21 languages.
- Support for MSX (Multi-Spectral Dynamic Imaging ) Images
- Support for Sketch Images on both IR and Visual with toggling ON/OFF feature.
- Support for Same FOV ( Field of View Match )
- Display of Compass Information in Edit and in Report.
- Display of GPS Information in Edit and in Report.
- Microsoft Windows 7 (32- and 64-bit) and Windows 8 (32- and 64-bit)
- Camera update (applies to FLIR Ex, Kxx, Exx and T6xx series only).

## Download

Download a 30-day evaluation version here:

<http://support.flir.com/toolsplus>

## Release notes

Version	5.2
New features in version 5.2	<ul style="list-style-type: none"> <li>• Support for auto-adjusting a region.</li> <li>• Support for zoom.</li> <li>• Express Microsoft Word reporting (*.docx).</li> <li>• Various bug fixes.</li> </ul>

**P/N: T198583**

© 2015, FLIR Systems, Inc.  
#T198583; r. 25121; en-US

Release notes	
New features in version 5.1	<ul style="list-style-type: none"> <li>Improved import performance.</li> <li>Added support for video recording settings for FLIR Kxx series.</li> <li>Added support for importing video files from FLIR Kxx series.</li> <li>Added support for FLIR C2 camera.</li> <li>Various bug fixes.</li> </ul>
New features in version 5.0	<ul style="list-style-type: none"> <li>Local object parameters for measurement tools.</li> <li>Save a report in-process with the ability to edit at a later time.</li> <li>Pull-down menus for text annotations.</li> <li>Variable playback speed for recordings.</li> <li>Show or hide min./max./avg. temperature, and hot/cold markers, for areas and lines.</li> <li>Smoother display for low-resolution images.</li> <li>UltraMax image enhancement.</li> <li>Dropping support for Windows XP.</li> <li>Various bug fixes.</li> </ul>
New features in version 4.1	<ul style="list-style-type: none"> <li>Previous/next in Edit mode.</li> <li>Clone in the Library.</li> <li>Extract visual photo from a multispectral image.</li> <li>Import *.mp4, *.seq, and *.csq files from the camera.</li> <li>Playback/edit *.seq and *.csq files.</li> <li>Scale enhancement for the FLIR GF3xx series.</li> <li>Auto resize of thumbnails during importing for the FLIR T6xx series.</li> <li>Grouping/ungrouping now added.</li> <li>Various bug fixes.</li> </ul>
New features in version 4.0	<ul style="list-style-type: none"> <li>Support for the new FLIR Ex and Exx series cameras.</li> <li>Interactive quick start guide when connecting a FLIR camera.</li> <li>Improved library view.</li> <li>Support for multispectral images.</li> <li>Support for auto-oriented images.</li> <li>Various bug fixes.</li> </ul>
New features in version 3.1	<ul style="list-style-type: none"> <li>Support for FLIR K series cameras.</li> <li>Interactive quick start guide when connecting a FLIR K series camera.</li> <li>Live image streaming from FLIR K series cameras.</li> <li>PC-side configuration of FLIR K series cameras.</li> <li>New report templates for DC images only added.</li> <li>Various bug fixes.</li> </ul>
New features in version 3.0	<ul style="list-style-type: none"> <li>Add folder to library.</li> <li>Support for isotherms and color alarms</li> <li>Image description for both IR and DC.</li> <li>Export functionality (*.avi, *.csv).</li> <li>Microsoft Windows 8 (32- and 64-bit)</li> <li>New web installer</li> <li>Radiometric panorama with MSX images.</li> <li>Advanced reports.</li> <li>Manual grouping/ungrouping of images.</li> <li>Various bug fixes.</li> </ul>
New features in version 2.2	<ul style="list-style-type: none"> <li>Camera tab: <ul style="list-style-type: none"> <li>Logging feature in Camera Tab</li> <li>Recording and playback of SEQ files.</li> </ul> </li> <li>Various bug fixes.</li> </ul>
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>FLIR Tools+ scratchcard</li> </ul>
Packaging, weight	0.059 kg (0.13 lb.)

**P/N: T198583**

© 2015, FLIR Systems, Inc.  
#T198583; r. 25121; en-US

Shipping information	
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	73325585378 4743254001442 (Estonia plant)
UPC-12	845188005580
Country of origin	Sweden
System requirements	
Operating system	<ul style="list-style-type: none"> <li>Windows XP, 32-bit</li> <li>Windows Vista, 32-bit</li> <li>Windows 7, 32-bit</li> <li>Windows 7, 64-bit</li> <li>Windows 8, 32-bit</li> <li>Windows 8, 64-bit</li> </ul>
Software requirements	<ul style="list-style-type: none"> <li>Office 2007, 32-bit</li> <li>Office 2010, 32-bit</li> <li>Office 2013, 32-bit</li> </ul>

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)

**P/N: T198583**

© 2015, FLIR Systems, Inc.  
#T198583; r. 25121; en-US

- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens



**P/N: T198583**

© 2015, FLIR Systems, Inc.  
#T198583; r. 25121; en-US

- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 63901-0101; FLIR E4
- 63905-0501; FLIR E5
- 63902-0202; FLIR E6
- 63903-0303; FLIR E8

## P/N: DSW-10000

### Copyright

© 2015, FLIR Systems, Inc.

All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: DSW-10000

Commit: 24597

Language: en-US

Modified: 2015-04-09 13:38

Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.

27700 SW Parkway Ave.

Wilsonville, OR 97070

USA

Telephone: +1-503-498-3547

### Website

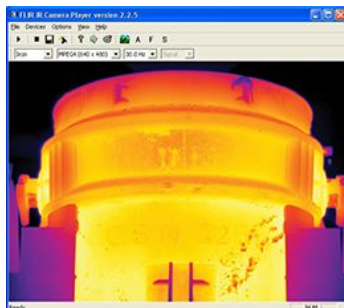
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

FLIR IR Camera Player is a PC-based remote control and viewer that you can use with cameras from FLIR Systems.

You can perform one or more of the following with FLIR IR Camera Player:

- Record a video stream from the camera.
- Save a frame from the video stream as a snapshot image (\*.bmp).
- Autofocus, focus far, and focus near.
- Autoadjust the camera image.
- Freeze the camera image.
- Save a camera image in the camera.
- Change Color palette.
- Add an image description and a text comment to an image.

You connect a camera in one of the following ways:

- Ethernet
- FireWire
- USB

### Download

This software is a freeware. To download, click the following link:

<http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=89>

### Release notes

Version	2.3.3
New features	<p>Main improvements in version 2.3.3:</p> <ul style="list-style-type: none"> <li>• Added latest device drivers (1.9.1.0).</li> <li>• Various bugfixes</li> </ul> <p>Main improvements in version 2.2.7:</p> <ul style="list-style-type: none"> <li>• Added support for FLIR Ax5 series.</li> </ul>

### System requirements

Operating system	<ul style="list-style-type: none"> <li>• Windows XP, 32-bit</li> <li>• Windows Vista, 32-bit/64-bit</li> <li>• Windows 7, 32-bit/64-bit</li> </ul>
------------------	--

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)

**P/N: DSW-10000**

© 2015, FLIR Systems, Inc.  
#DSW-10000; r. 24597; en-US

- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc

**P/N: DSW-10000**

© 2015, FLIR Systems, Inc.  
#DSW-10000; r. 24597; en-US

- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)



---

**P/N: DSW-10000**

© 2015, FLIR Systems, Inc.  
#DSW-10000; r. 24597; en-US

- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: APP-10002

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: APP-10002  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

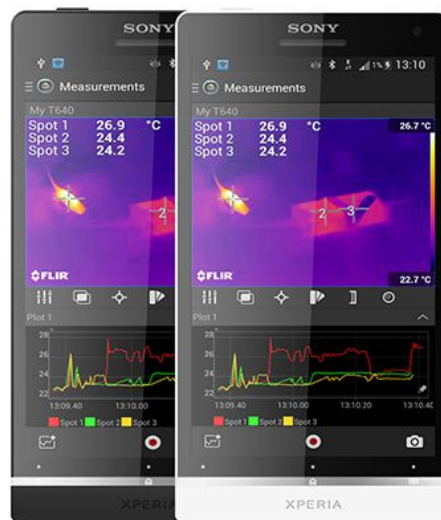
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

FLIR Tools Mobile is an intuitive Android app for analyzing, managing, and distributing infrared images.

#### Key features:

- Remote control
- MSX
- Images with sketch on DC and IR
- Images with field of view follow
- Editable text comments
- Emissivity table
- Import images from your Wi-Fi-enabled camera.
- Connect and stream infrared images from the camera.
- Connect and stream measurement data from FLIR Test & Measurement meters
- Lay out and move measurement tools on the image.
- Read out temperature measurements.
- Create and configure temporal plots based on results of measurement tools on the infrared image.
- Log measurement data and export it as a \*.csv file.
- Save a measurement scenario as a data snapshot.
- Zoom in on images.
- On the Android device, remotely take snapshots when a camera is connected.
- On the camera, take snapshots that will automatically be saved on the Android device.
- Delete images on the Android device.
- Display an image's GPS coordinates on Google Maps.
- Create and e-mail reports.
- Save images in the Android device photo library.
- Send images to FTP sites and other file-sharing services (Dropbox, Box.net, etc.).
- Display image information, e.g., object parameters, text comments, and file details.
- Play back voice comments.
- Change the level and span.
- Change general settings in the app.
- Change the palette.

### Download

The application can be downloaded from Android Market or Amazon Marketplace, see the link below.

<https://market.android.com/details?id=com.flir.viewer>

**P/N: APP-10002**

© 2015, FLIR Systems, Inc.  
#APP-10002; r. 24597; en-US

Release notes	
Version	3.4.0
New features	<p>Main improvements in version 3.4.0:</p> <ul style="list-style-type: none"> <li>• Support for *.csq files.</li> <li>• Various bug fixes.</li> </ul> <p>Main improvements in version 3.2.0:</p> <ul style="list-style-type: none"> <li>• Receive data logs from FLIR DM93.</li> <li>• Save or export data logs in new *.csv format.</li> <li>• Various bug fixes.</li> </ul> <p>Main improvements in version 3.1.0:</p> <ul style="list-style-type: none"> <li>• Added variable level of MSX alpha</li> <li>• Added Fusion Blending mode for images with possibility to adjust level</li> <li>• Stability fixes</li> <li>• Improved memory management</li> <li>• Modified internal handling of measurement results and displaying them.</li> </ul>
System requirements	
Operating system	<ul style="list-style-type: none"> <li>• Android 2.3 and later</li> </ul>

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)

**P/N: APP-10002**

© 2015, FLIR Systems, Inc.  
#APP-10002; r. 24597; en-US

- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)



## P/N: APP-10003

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: APP-10003  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

FLIR Tools Mobile lets professional thermographers use an iPad, iPhone, or iPod touch to see and capture live, streaming infrared video and stills from select FLIR cameras.

With FLIR Tools Mobile the camera can be stationed in one area and operated wirelessly from another – highly useful for IR inspections of energized equipment or performing IR surveys in hard-to-reach locations and harsh working environments. Streaming video and remote access also gives decision makers and others on your team a valuable opportunity to observe and collaborate in the thermal imaging process.

Using FLIR Tools Mobile, you can do one or more of the following:

- Import images from your infrared camera
- Lay out and move measurement tools on the image
- Read out temperature measurements
- Zoom in on images
- On the iPhone/iPad, remotely take snapshots when a camera is connected
- On the camera, take snapshots that will automatically be saved in the iPhone/iPad
- Delete any images on the iPhone/iPad
- Display an image's GPS coordinates on Google Maps
- Create and e-mail imagesheets
- Create and e-mail reports
- Print imagesheets and reports to any AirPrint-enabled printer
- Save images to iPhone/iPad photo library
- Send images to FTP sites and other file sharing services (Dropbox, Box.net, etc.)
- Display image information, such as object parameters, text comments, file information, etc.
- Play-back voice comments
- Change level and span
- Change general settings in the app
- Change palette

**P/N: APP-10003**

© 2015, FLIR Systems, Inc.  
#APP-10003; r. 24597; en-US

General description	
FLIR Tools Mobile lets you take control of the following features on selected cameras:	
<ul style="list-style-type: none"> <li>• Remote control of your FLIR camera.</li> <li>• Support for MSX (Multi-Spectral Dynamic Imaging) images.</li> <li>• Support for sketch images in both IR and visual with on/off toggling.</li> <li>• Support for same FOV ("Field of View Match").</li> <li>• Editable text comments.</li> <li>• Auto and manual focus</li> <li>• Level and span</li> <li>• Color palettes</li> <li>• Temperature measurement analytics</li> <li>• Spot</li> <li>• Area box</li> <li>• Circle</li> <li>• Line</li> <li>• Parameter settings</li> <li>• Emissivity</li> <li>• Reflected temperature</li> <li>• Relative humidity</li> <li>• Atmospheric temperature</li> <li>• IR and visible light image blending</li> <li>• Picture-in-picture</li> <li>• Thermal fusion</li> <li>• Image storage</li> <li>• MPEG 4 video</li> <li>• Radiometric JPEG stills</li> </ul>	
Download	
The application can be downloaded from App Store, see the link below.	
<a href="http://itunes.apple.com/app/flir-tools/id511247887?mt=8">http://itunes.apple.com/app/flir-tools/id511247887?mt=8</a>	
Release notes	
Version	1.5.0
New features	<p>Main improvements in version 1.5.0:</p> <ul style="list-style-type: none"> <li>• Updated for iOS7.</li> <li>• Improved Library.</li> </ul> <p>Main improvements in version 1.3.2:</p> <ul style="list-style-type: none"> <li>• Added remote viewer mode for T4xx and Exx series.</li> <li>• Improved support for anonymous FTP server.</li> <li>• Improved image import from photo gallery.</li> </ul> <p>Main improvements in version 1.3:</p> <ul style="list-style-type: none"> <li>• Support for fusion images.</li> <li>• Marking fusion images with the stacked icon in the library browser.</li> <li>• Switching image modes while editing fusion images.</li> <li>• Switch between fusion IR/DC and grouped images during preview.</li> <li>• Support for landscape and portrait images.</li> <li>• Image parameters can be modified only in edit mode.</li> <li>• Support for FLIR Exx-series cameras.</li> </ul>
System requirements	
Operating system	<ul style="list-style-type: none"> <li>• iOS 4.0 or later</li> </ul>
Hardware requirements	<ul style="list-style-type: none"> <li>• iPhone</li> <li>• iPad</li> <li>• iPod</li> </ul>

**Compatible with the following products**

- N/A

## P/N: APP-10004

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: APP-10004  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
FLIR Tools is a software specifically designed to provide an easy way to analyze infrared images and create inspection reports.	
Using FLIR Tools, you can do one or more of the following:	
<ul style="list-style-type: none"> <li>• Import images from your camera to your computer.</li> <li>• Search for images.</li> <li>• Lay out, move, and resize measurement tools on any infrared image.</li> <li>• Create PDF reports for images of your choice.</li> <li>• Add headers, footers, and logos to reports.</li> <li>• Create new report templates.</li> </ul>	
FLIR Tools lets you take control of the following features on selected cameras:	
<ul style="list-style-type: none"> <li>• Connect an infrared camera to FLIR Tools and display its live image stream.</li> <li>• When the camera is connected, lay out measurement tools, change parameters, create plots, etc.</li> </ul>	
Download	
The application can be downloaded from Mac App Store, see the link below.	
<a href="https://itunes.apple.com/app/flir-tools/id579348845?mt=12">https://itunes.apple.com/app/flir-tools/id579348845?mt=12</a>	
Release notes	
Version	2.1
New features	<p>Main improvements in version 2.1:</p> <ul style="list-style-type: none"> <li>• Support for thermal blending.</li> <li>• Support for groups and multispectral images.</li> <li>• Improved stability.</li> </ul> <p>Main improvements in version 2.0:</p> <ul style="list-style-type: none"> <li>• Connect an infrared camera to FLIR Tools and display its live image stream.</li> <li>• When the camera is connected, lay out measurement tools, change parameters, create plots, etc.</li> <li>• Create new report templates.</li> <li>• Various bug fixes.</li> </ul>
System requirements	
Operating system	<ul style="list-style-type: none"> <li>• OS X 10.7 or later,</li> </ul>
Hardware requirements	<ul style="list-style-type: none"> <li>• MacOS</li> </ul>

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)

**P/N: APP-10004**

© 2015, FLIR Systems, Inc.  
#APP-10004; r. 24597; en-US

- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: T198113

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198113  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
A narrow FOV is used in applications where the object that is going to be monitored is remote from the Camera or when the Camera needs to be far away from the object due to for an example high temperatures.	
Imaging and optical data	
Field of view (FOV)	6° × 4.5°
Minimum focus distance	4 m (13.11 ft.)
Focal length	76 mm (3.0 in.)
Spatial resolution (IFOV)	0.33 mrad
F-number	1.3
Number of lenses	3 (3 asph)
MTF @ 70% of FOV	Normal requirements (52%)
Distortion	3%
Lens note	This lens must be calibrated in a service location if sold separately, otherwise the image will be upside-down.
Physical data	
Weight	Lens: 0.328 kg (0.723 lb.) Support: 0.11 kg (0.243 lb.)
Size (L × D)	106 × 89 mm (4.17 × 3.48 in.), excluding support
Shipping information	
List of contents	<ul style="list-style-type: none"> <li>• Lens</li> <li>• Lens case</li> <li>• Mounting support</li> </ul>
EAN-13	7332558005736 4743254001732 (Estonia plant)
UPC-12	845188005948
Country of origin	Sweden

### Compatible with the following products

- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)



## IR lens, 76 mm (6°) with case and mounting support for Exx

---

### P/N: T198113

© 2015, FLIR Systems, Inc.  
#T198113; r. 23380; en-US

- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

**P/N: T199837**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: T199837  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The Extended Warranty Package covers parts and labour for your IR camera, consumables not included. FLIR Systems warrants its products to be free from defects caused by faulty material or poor workmanship, for a period specified above. NO PRODUCT IS WARRANTED TO BE MERCHANTABLE OR FIT FOR ANY PARTICULAR USE OR APPLICATION. The warranty is void if the buyer damages the item due to misuse, abuse, modification, processing, or integration with other items. FLIR Systems' maximum liability under this warranty is limited to the obligation to replace or, at its sole option, to credit Buyer's account up to the purchase price.

## Download

Contact info can be found at:

<http://support.flir.com>

## Compatible with the following products

- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: T199839

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T199839  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

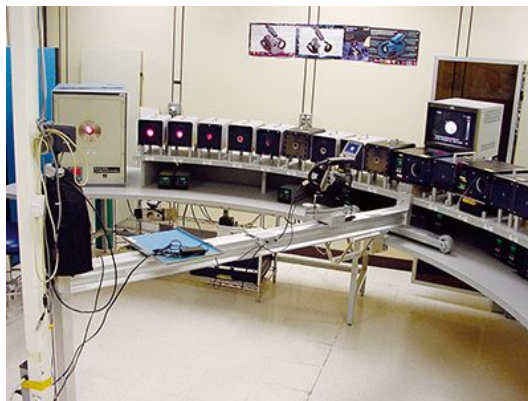
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

General Maintenance package offers a complete 14 points inspection and calibration service (for one lens combination). Shipping cost not included.

#### 14-point inspection program:

- Perform a complete operational check.
- Fusion calibration and laser alignment, when applicable.
- Verify all internal cable and PCB connections.
- Clean the viewfinder and check the optics.
- Upgrade the internal camera software to the latest revisions.
- Perform minor repairs.
- Verify and/or re-equalize as needed each temperature range for image uniformity.
- Verify standard lens calibration (optional: other or specially engineered lenses).
- Verify ambient temperature compensation as needed.
- Recalibration to ensure factory specifications are met.
- Calibrate temperature ranges up to +1500°C, when applicable.
- Perform a quality-approved acceptance test procedure.
- Provide a calibration label with the next due date.
- Provide a calibration certificate (optional: extended calibration certificate with measured values).

### Download

Contact info can be found at:

<http://support.flir.com>

### Compatible with the following products

- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)



## P/N: ITC-FEE-0120

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-FEE-0120  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Certification DIN EN ISO 9712 TT Category 1	
Course information	
Available languages	DACH only
Course details	
Duration	1 day

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)

**P/N: ITC-FEE-0120**

© 2015, FLIR Systems, Inc.

#ITC-FEE-0120; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-CER-6101

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-6101  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
DIN EN ISO 9712 TT Category 1 Certification course, excl. Certification, 1 pers.	
Course information	
Available languages	DACH only
Course details	
Duration	5 days

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)

---

**P/N: ITC-CER-6101**

© 2015, FLIR Systems, Inc.

#ITC-CER-6101; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-CER-6109

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-6109  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
DIN EN ISO 9712 TT Category 1 Certification course, excl. Certification, group up to 10 pers.	
Course information	
Available languages	DACH only
Course details	
Duration	5 days

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)

---

**P/N: ITC-CER-6109**

© 2015, FLIR Systems, Inc.

#ITC-CER-6109; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-ADV-3011

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3011  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course bridges the gap between IR thermography, background science and application theory. The participant will learn the physical concepts of heat transfer and apply them together with relevant building science. After the course, the participant will be able to do a qualified building inspection on the base of existing laws, standards, and regulations.

Note: This course refers mainly to European building standards. Please consult ITC before selling it in other countries.

### Content

- Introduction and refresher of IR basics
- Thermal transfer and wall structures
- Insulating materials
- Humidity, moisture, and the dew point
- Air leaks, pressure profiles, and air permeability
- Survey methodology

### Labs

- Outside inspection
- Air permeability test (with Blower Door)
- Reporting

### Course information

Available languages	English
Target group	<ul style="list-style-type: none"> <li>• Professional users in building applications who want to become experts in Building Thermography.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Knows how to operate the camera</li> <li>• Knows how to report</li> <li>• Has a background in a building profession, but rather moderate experience in IR or has experience in another IR application field but rather moderate knowledge in building science</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Valid Level 1 thermography certificate</li> <li>• IR related education and experience</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Knowledge of building techniques</li> <li>• Bring own PC for calculations and exercises</li> </ul>

**P/N: ITC-ADV-3011**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3011; r. 23306; en-US

Course details	
Duration	3 days (24 hours)
Structure	Theory takes place in the mornings, practical labs, calculations, and software exercises are scheduled for the afternoons.
Exam	A final test (20 multiple choice questions) will be written on the 3rd day in the afternoon. In connection, the correct answers will be discussed by the instructor and the participants.
Course fee includes	<ul style="list-style-type: none"><li>• Tuition by ITC licensed instructor</li><li>• Training material in printed format</li><li>• Refreshments</li><li>• Diploma of attendance</li><li>• Attendance of 1 person</li><li>• Might include more, such as lunch, depending on location and organizing entity</li></ul>
Course organization	
ITC	The Advanced Building Course is offered worldwide by ITC as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC.
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach the Advanced Building Course.

**Compatible with the following products**

- N/A



## P/N: ITC-ADV-3019

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3019  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course bridges the gap between IR thermography, background science and application theory. The participant will learn the physical concepts of heat transfer and apply them together with relevant building science. After the course, the participant will be able to do a qualified building inspection on the base of existing laws, standards, and regulations.

Note: This course refers mainly to European building standards. Please consult ITC before selling it in other countries.

### Content

- Introduction and refresher of IR basics
- Thermal transfer and wall structures
- Insulating materials
- Humidity, moisture, and the dew point
- Air leaks, pressure profiles, and air permeability
- Survey methodology

### Labs

- Outside inspection
- Air permeability test (with Blower Door)
- Reporting

### Course information

Available languages	English
Target group	<ul style="list-style-type: none"> <li>• Professional users in building applications who want to become experts in Building Thermography.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Knows how to operate the camera</li> <li>• Knows how to report</li> <li>• Has a background in a building profession, but rather moderate experience in IR or has experience in another IR application field but rather moderate knowledge in building science</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Valid Level 1 thermography certificate</li> <li>• IR related education and experience</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Knowledge of building techniques</li> <li>• Bring own PC for calculations and exercises</li> </ul>

**P/N: ITC-ADV-3019**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3019; r. 23306; en-US

Course details	
Duration	3 days (24 hours)
Structure	Theory takes place in the mornings, practical labs, calculations, and software exercises are scheduled for the afternoons.
Exam	A final test (20 multiple choice questions) will be written on the 3rd day in the afternoon. In connection, the correct answers will be discussed by the instructor and the participants.
Course fee includes	<ul style="list-style-type: none"><li>• Tuition by ITC licensed instructor</li><li>• Training material in printed format</li><li>• Refreshments</li><li>• Diploma of attendance</li><li>• Attendance of a group up to 10 persons</li><li>• Might include more, such as lunch, instructor's travel expenses, etc. depending on location and organizing entity</li></ul>
Course organization	
ITC	The Advanced Building Course is offered worldwide by ITC as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC.
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach the Advanced Building Course.

**Compatible with the following products**

- N/A

## P/N: ITC-ADV-3021

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3021  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This interdisciplinary course bridges the gap between IR thermography, background science and application theory. Being an overview course it deals with three main application fields of thermography: electrical, industrial, and building. For every application the participant will learn about the specific theory, typical faults, and how to detect them with a thermography camera. The student will also learn about the basics of condition monitoring, and maintenance.

Examples and case studies from the real world illustrate the course content and are discussed with the participants. Participants will be trained in discovering and identifying typical faults by typical thermal patterns.

### Content

- Introduction
- Electrical Applications (current, voltage, resistance, electrical systems, Ohm's law, some important properties of materials, typical faults, surveying methodology and criteria, safety, voltage limits)
- Industrial Applications (bearings, pumps, gears, belts, misalignment and couplings, gaskets, seals, rings, glands, steam traps, furnaces)
- Building Applications (definition of the building envelope, steady state thermal transfer in a building envelope, transient thermal transfer in a building envelope, applications)

### Course information

Available languages	English
Target group	<ul style="list-style-type: none"> <li>• Professional thermographers holding a Level 1 or a Level 2 certificate and</li> <li>• with interest in increasing their knowledge of different thermographic applications, and their limitations or</li> <li>• with a special interest in condition monitoring of machines</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Knows how to operate the camera</li> <li>• Knows how to report</li> <li>• Works in the industry with e.g. maintenance and condition monitoring or is a consultant</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Valid Level 1 thermography certificate</li> <li>• IR related education and experience</li> </ul>

**P/N: ITC-ADV-3021**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3021; r. 23306; en-US

Course details	
Duration	3 days (24 hours)
Structure	The course is divided into the three parts: Electrical Applications, Industrial Applications, and Building Applications. Theory sessions and case studies including interactive discussions alternate.
Exam	A final exam (30 multiple choice questions) will be written on the 3d day in the afternoon. In connection, the correct answers will be discussed by the instructor and the participants.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Attendance of 1 person</li> <li>• Might include more, such as lunch, depending on location and organizing entity</li> </ul>
Course organization	
ITC	The Advanced General Thermography Course is offered worldwide by ITC as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary.
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Advanced General Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)

**P/N: ITC-ADV-3021**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3021; r. 23306; en-US

- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC

---

**P/N: ITC-ADV-3021**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3021; r. 23306; en-US

- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-ADV-3029

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3029  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This interdisciplinary course bridges the gap between IR thermography, background science and application theory. Being an overview course it deals with three main application fields of thermography: electrical, industrial, and building. For every application the participant will learn about the specific theory, typical faults, and how to detect them with a thermography camera. The student will also learn about the basics of condition monitoring, and maintenance.

Examples and case studies from the real world illustrate the course content and are discussed with the participants. Participants will be trained in discovering and identifying typical faults by typical thermal patterns.

### Content

- Introduction
- Electrical Applications (current, voltage, resistance, electrical systems, Ohm's law, some important properties of materials, typical faults, surveying methodology and criteria, safety, voltage limits)
- Industrial Applications (bearings, pumps, gears, belts, misalignment and couplings, gaskets, seals, rings, glands, steam traps, furnaces)
- Building Applications (definition of the building envelope, steady state thermal transfer in a building envelope, transient thermal transfer in a building envelope, applications)

### Course information

Available languages	
English	
Target group	
<ul style="list-style-type: none"> <li>• Professional thermographers holding a Level 1 or a Level 2 certificate and</li> <li>• with interest in increasing their knowledge of different thermographic applications, and their limitations or</li> <li>• with a special interest in condition monitoring of machines</li> </ul>	
Typical student	
<ul style="list-style-type: none"> <li>• Knows how to operate the camera</li> <li>• Knows how to report</li> <li>• Works in the industry with e.g. maintenance and condition monitoring or is a consultant</li> </ul>	
Pre-requisites	
<ul style="list-style-type: none"> <li>• Valid Level 1 thermography certificate</li> <li>• IR related education and experience</li> </ul>	

**P/N: ITC-ADV-3029**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3029; r. 23306; en-US

Course details	
Duration	3 days (24 hours)
Structure	The course is divided into the three parts: Electrical Applications, Industrial Applications, and Building Applications. Theory sessions and case studies including interactive discussions alternate.
Exam	A final exam (30 multiple choice questions) will be written on the 3d day in the afternoon. In connection, the correct answers will be discussed by the instructor and the participants.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Attendance of a group up to 10 persons</li> <li>• Might include more, such as lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	The Advanced General Thermography Course is offered worldwide by ITC as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary.
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Advanced General Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)



**P/N: ITC-ADV-3029**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3029; r. 23306; en-US

- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL

---

**P/N: ITC-ADV-3029**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3029; r. 23306; en-US

- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-CON-1001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CON-1001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

ITC conference fee

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-CON-1001**

© 2015, FLIR Systems, Inc.

#ITC-CON-1001; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-CON-1001**

© 2015, FLIR Systems, Inc.

#ITC-CON-1001; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-EXP-0511

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-0511  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
ITC Getting Started with Thermography - attendance, 1 pers.	
Course information	
Available languages	DE, FR, IT, NL, SE
Course details	
Duration	4 hours

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)

---

**P/N: ITC-EXP-0511**

© 2015, FLIR Systems, Inc.

#ITC-EXP-0511; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-EXP-0521

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-0521  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
ITC Getting Started with Thermography (evening or weekend) - attendance, 1 pers.	
Course information	
Available languages	DE, FR, IT, NL, SE
Course details	
Duration	4 hours

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)



---

**P/N: ITC-EXP-0521**

© 2015, FLIR Systems, Inc.

#ITC-EXP-0521; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-EXP-1021

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1021  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

An on-site training can be customized upon your needs. The participants will learn about IR thermography, inspections, measurements, applications, and reporting corresponding to the level needed for performing measurements and inspection in their working environment. The trainer will give useful advice on how to best implement IR thermography in your business.

This partnumber is reserved for adding additional students to an on site class.

### Content

- An on-site course can be any course, from a 1-day introduction to general thermography, over a customized application course to a complete certification course.

### Labs

- Portable classroom labs
- Field training on the site in agreement with the customer

### Course information

Available languages	English, Dutch, German, French, Italian, Spanish, Swedish, other languages upon request
Target group	<ul style="list-style-type: none"> <li>• Employees of a company or certain departments who would like to minimize travel costs and receive the training directly on their daily working site.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>

### Course details

Duration	Customized or according to the kind of course the in-house training is equivalent to.
Structure	Theory, camera handling, demos, practical labs and field training alternate.

**P/N: ITC-EXP-1021**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1021; r. 23306; en-US

Course details	
Exam	Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> </ul>
Course organization	
ITC	ITC In-house courses are offered worldwide by ITC and partners as listed. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	ITC In-house courses are lectured by ITC qualified instructors with experience in the relevant fields of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm

**P/N: ITC-EXP-1021**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1021; r. 23306; en-US

- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°

**P/N: ITC-EXP-1021**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1021; r. 23306; en-US

- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-1029

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1029  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
An on-site training can be customized upon your needs. The participants will learn about IR thermography, inspections, measurements, applications, and reporting corresponding to the level needed for performing measurements and inspection in their working environment. The trainer will give useful advice on how to best implement IR thermography in your business.	
Content	
<ul style="list-style-type: none"> <li>An on-site course can be any course, from a 1-day introduction to general thermography, over a customized application course to a complete certification course.</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Portable classroom labs</li> <li>Field training on the site in agreement with the customer</li> </ul>	
Course information	
Available languages	English, Dutch, German, French, Italian, Spanish, Swedish, other languages upon request
Target group	<ul style="list-style-type: none"> <li>Employees of a company or certain departments who would like to minimize travel costs and receive the training directly on their daily working site.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>
Course details	
Duration	Customized or according to the kind of course the in-house training is equivalent to.
Structure	Theory, camera handling, demos, practical labs and field training alternate.
Exam	Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.

**P/N: ITC-EXP-1029**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1029; r. 23306; en-US

Course details	
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> </ul>
Note	Course fee does not include cost for instructor's travelling or lodging. When organized at the customers' site, the customer is responsible for providing a suitable classroom and preferably also refreshments/lunch.
Course organization	
ITC	ITC In-house courses are offered worldwide by ITC and partners as listed. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	ITC In-house courses are lectured by ITC qualified instructors with experience in the relevant fields of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)

**P/N: ITC-EXP-1029**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1029; r. 23306; en-US

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL



**P/N: ITC-EXP-1029**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1029; r. 23306; en-US

- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-CER-5105

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5105  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 1 certified thermographer. The participant will learn about the basics of infrared, how to operate the camera under different conditions and for various purposes, how to do an appropriate judgement of the measurement situation in the field and how to identify potential error sources. After the class, the participant will be able to do IR inspections following written guidelines and to report the result of this inspection.

This partnumber is reserved for adding additional students to a level 1 on site class.

### Content

- Introduction to Thermography
- Camera Operation
- Basic physics of heat
- Basic physics of infrared
- Thermal pattern recognition and IR applications
- IR temperature measurement techniques
- Qualitative and quantitative thermography
- Inspection routines and reporting

### Student presentations

During the seminar, students will generate a small case study based on the lab exercises to be presented to the class.

### Labs

- Camera handling
- Level and Span
- Conduction pattern
- Forced convection
- Direct and indirect thermal measurement
- Thermal capacity
- Steady state and transient heat flow
- Evaporation and condensation
- Electrical application
- Emissivity and Reflected apparent temperature
- Spatial resolution
- Location and temperature measurement of a hot/cold spot
- Image transfer to the computer

**P/N: ITC-CER-5105**

© 2015, FLIR Systems, Inc.

#ITC-CER-5105; r. 23306; en-US

Course information	
Available languages	Chinese, Danish, Dutch, English, Finish, French, German, Greek, Hebrew, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (bra.), Romanian, Russian, Serbo-Croatian, Spanish, Swedish, Thai
Target group	<ul style="list-style-type: none"> <li>• Practical user</li> <li>• This course is designed for beginners in thermography with some experience in camera handling and limited IR knowledge, who want to take their first step to become a professional thermographer and want to qualify as a Level 1 certified thermographer.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>• having already some basic experience with IR thermography,</li> <li>• knowing the basic functions of the camera,</li> <li>• who wants to become a certified thermographer in order to gain a competitive advantage or who needs the certifications because of legal reasons or company internal regulations.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Be familiar with the basic operation of an infrared camera</li> <li>• Have the recommended experience within thermography according to relevant standards</li> </ul>

Course details	
Duration	35 – 40 hours
Structure	Theory and camera practice (hands-on) alternate every day, additional labs and software exercises at some days.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>• Attendance of 1 person</li> <li>• Might include more, such as lunch, depending on location and organizing entity</li> </ul>
Note	Only for non-EURO, non-SEK, non NOK, non- £, -non CHF countries

Course organization	
ITC	The Level 1 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)

**P/N: ITC-CER-5105**

© 2015, FLIR Systems, Inc.

#ITC-CER-5105; r. 23306; en-US

- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc

**P/N: ITC-CER-5105**

© 2015, FLIR Systems, Inc.

#ITC-CER-5105; r. 23306; en-US

- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-CER-5101

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5101  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 1 certified thermographer. The participant will learn about the basics of infrared, how to operate the camera under different conditions and for various purposes, how to do an appropriate judgement of the measurement situation in the field and how to identify potential error sources. After the class, the participant will be able to do IR inspections following written guidelines and to report the result of this inspection.

### Content

- Introduction to Thermography
- Camera Operation
- Basic physics of heat
- Basic physics of infrared
- Thermal pattern recognition and IR applications
- IR temperature measurement techniques
- Qualitative and quantitative thermography
- Inspection routines and reporting

### Student presentations

During the seminar, students will generate a small case study based on the lab exercises to be presented to the class.

### Labs

- Camera handling
- Level and Span
- Conduction pattern
- Forced convection
- Direct and indirect thermal measurement
- Thermal capacity
- Steady state and transient heat flow
- Evaporation and condensation
- Electrical application
- Emissivity and Reflected apparent temperature
- Spatial resolution
- Location and temperature measurement of a hot/cold spot
- Image transfer to the computer

**P/N: ITC-CER-5101**

© 2015, FLIR Systems, Inc.

#ITC-CER-5101; r. 23306; en-US

Course information	
Available languages	Chinese, Danish, Dutch, English, Finish, French, German, Greek, Hebrew, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (bra.), Romanian, Russian, Serbo-Croatian, Spanish, Swedish, Thai
Target group	<ul style="list-style-type: none"> <li>Practical user</li> <li>This course is designed for beginners in thermography with some experience in camera handling and limited IR knowledge, who want to take their first step to become a professional thermographer and want to qualify as a Level 1 certified thermographer.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>having already some basic experience with IR thermography,</li> <li>knowing the basic functions of the camera,</li> <li>who wants to become a certified thermographer in order to gain a competitive advantage or who needs the certifications because of legal reasons or company internal regulations.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Be familiar with the basic operation of an infrared camera</li> <li>Have the recommended experience within thermography according to relevant standards</li> </ul>

Course details	
Duration	35 – 40 hours
Structure	Theory and camera practice (hands-on) alternate every day, additional labs and software exercises at some days.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>Attendance of 1 person</li> <li>Might include more, such as lunch, depending on location and organizing entity</li> </ul>

Course organization	
ITC	The Level 1 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)

**P/N: ITC-CER-5101**

© 2015, FLIR Systems, Inc.

#ITC-CER-5101; r. 23306; en-US

- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)



**P/N: ITC-CER-5101**

© 2015, FLIR Systems, Inc.

#ITC-CER-5101; r. 23306; en-US

- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-CER-5109

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5109  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 1 certified thermographer. The participant will learn about the basics of infrared, how to operate the camera under different conditions and for various purposes, how to do an appropriate judgement of the measurement situation in the field and how to identify potential error sources. After the class, the participant will be able to do IR inspections following written guidelines and to report the result of this inspection.

### Content

- Introduction to Thermography
- Camera Operation
- Basic physics of heat
- Basic physics of infrared
- Thermal pattern recognition and IR applications
- IR temperature measurement techniques
- Qualitative and quantitative thermography
- Inspection routines and reporting

### Student presentations

During the seminar, students will generate a small case study based on the lab exercises to be presented to the class.

### Labs

- Camera handling
- Level and Span
- Conduction pattern
- Forced convection
- Direct and indirect thermal measurement
- Thermal capacity
- Steady state and transient heat flow
- Evaporation and condensation
- Electrical application
- Emissivity and Reflected apparent temperature
- Spatial resolution
- Location and temperature measurement of a hot/cold spot
- Image transfer to the computer

**P/N: ITC-CER-5109**

© 2015, FLIR Systems, Inc.

#ITC-CER-5109; r. 23306; en-US

Course information	
Available languages	Chinese, Danish, Dutch, English, Finish, French, German, Greek, Hebrew, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (bra.), Romanian, Russian, Serbo-Croatian, Spanish, Swedish, Thai
Target group	<ul style="list-style-type: none"> <li>• Practical user</li> <li>• This course is designed for beginners in thermography with some experience in camera handling and limited IR knowledge, who want to take their first step to become a professional thermographer and want to qualify as a Level 1 certified thermographer.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>• having already some basic experience with IR thermography,</li> <li>• knowing the basic functions of the camera,</li> <li>• who wants to become a certified thermographer in order to gain a competitive advantage or who needs the certifications because of legal reasons or company internal regulations.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Be familiar with the basic operation of an infrared camera</li> <li>• Have the recommended experience within thermography according to relevant standards</li> </ul>

Course details	
Duration	35 – 40 hours
Structure	Theory and camera practice (hands-on) alternate every day, additional labs and software exercises at some days.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>• Attendance of a group up to 10 persons</li> <li>• Might include more, such as lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>

Course organization	
ITC	The Level 1 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)

**P/N: ITC-CER-5109**

© 2015, FLIR Systems, Inc.

#ITC-CER-5109; r. 23306; en-US

- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310

**P/N: ITC-CER-5109**

© 2015, FLIR Systems, Inc.

#ITC-CER-5109; r. 23306; en-US

- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-CER-5205

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5205  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 2 certified thermographer. The participant will learn about topics in infrared thermography to increase the knowledge about infrared physics, heat science, infrared measurement equipment and its application. As a Level 2 thermographer the participant shall provide guidance to category 1 personnel in the areas of equipment selection, techniques, limitations, data analysis, corrective actions and reporting.

This partnumber is reserved for adding additional students to a level 2 on site class.

### Content

- Thermal science
- Heat transfer
- Temperature measurement
- Infrared science
- IR equipment and applications

### Student presentations

During the seminar, students shall present a prepared case study to the class. The maximum duration (excl. discussion) should be 7 minutes and the maximum number of 7 slides should not be exceeded.

### Labs (Note: Labs marked "(M)" are mandatory)

- Newton's law (class lab) (M)
- Advanced emissivity measurement (M)
- Variation of emissivity with the angle (M)
- Transient thermal transfer
- Indirect power measurement (M)
- IR-window transmission (M)
- Slit Response Function
- Hole Response Function (M)
- Parallel circuits

### Course information

Available languages	Dutch, English, German, French, Italian, Portuguese (bra.), Spanish, Swedish
Target group	<ul style="list-style-type: none"> <li>• Professional user</li> <li>• This course is designed for thermographers holding a Level 1 certificate, who want to increase their knowledge about IR thermography and who want to qualify as a Level 2 certified thermographer.</li> </ul>

**P/N: ITC-CER-5205**

© 2015, FLIR Systems, Inc.

#ITC-CER-5205; r. 23306; en-US

Course information	
Typical student	<ul style="list-style-type: none"> <li>A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>having several months of professional experience within thermography,</li> <li>versed in camera operation and reporting,</li> <li>holding a Level 1 certificate,</li> <li>who needs the Level 2 Certification for guidance and supervision of other thermographers or is interested in deeper understanding of IR thermography.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Valid Level 1 thermography certificate,</li> <li>Recommended experience within thermography according to relevant standards,</li> <li>Prepared case study to be presented at the Level 2 course and submitted towards qualification at course closing.</li> </ul>

Course details	
Duration	40 hours
Structure	Theory, camera practice (hands-on), and prepared case studies alternate every day.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>Attendance of 1 person</li> <li>Might include more, such as lunch, depending on location and organizing entity.</li> </ul>
Note	Only for non-EURO, non-SEK, non NOK, non- £, -non CHF countries

Course organization	
ITC	The Level 2 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in T560393 Courses offered by ITC partners. Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)

**P/N: ITC-CER-5205**

© 2015, FLIR Systems, Inc.

#ITC-CER-5205; r. 23306; en-US

- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°



**P/N: ITC-CER-5205**

© 2015, FLIR Systems, Inc.

#ITC-CER-5205; r. 23306; en-US

- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-CER-5201

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5201  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 2 certified thermographer. The participant will learn about topics in infrared thermography to increase the knowledge about infrared physics, heat science, infrared measurement equipment and its application. As a Level 2 thermographer the participant shall provide guidance to category 1 personnel in the areas of equipment selection, techniques, limitations, data analysis, corrective actions and reporting.

### Content

- Thermal science
- Heat transfer
- Temperature measurement
- Infrared science
- IR equipment and applications

### Student presentations

During the seminar, students shall present a prepared case study to the class. The maximum duration (excl. discussion) should be 7 minutes and the maximum number of 7 slides should not be exceeded.

### Labs (Note: Labs marked "(M)" are mandatory)

- Newton's law (class lab) (M)
- Advanced emissivity measurement (M)
- Variation of emissivity with the angle (M)
- Transient thermal transfer
- Indirect power measurement (M)
- IR-window transmission (M)
- Slit Response Function
- Hole Response Function (M)
- Parallel circuits

### Course information

#### Available languages

Dutch, English, German, French, Italian, Portuguese (bra.), Spanish, Swedish

#### Target group

- Professional user
- This course is designed for thermographers holding a Level 1 certificate, who want to increase their knowledge about IR thermography and who want to qualify as a Level 2 certified thermographer.

**P/N: ITC-CER-5201**

© 2015, FLIR Systems, Inc.

#ITC-CER-5201; r. 23306; en-US

Course information	
Typical student	<ul style="list-style-type: none"> <li>A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>having several months of professional experience within thermography,</li> <li>versed in camera operation and reporting,</li> <li>holding a Level 1 certificate,</li> <li>who needs the Level 2 Certification for guidance and supervision of other thermographers or is interested in deeper understanding of IR thermography.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Valid Level 1 thermography certificate,</li> <li>Recommended experience within thermography according to relevant standards,</li> <li>Prepared case study to be presented at the Level 2 course and submitted towards qualification at course closing.</li> </ul>
Course details	
Duration	40 hours
Structure	Theory, camera practice (hands-on), and prepared case studies alternate every day.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>Attendance of 1 person</li> <li>Might include more, such as lunch, depending on location and organizing entity.</li> </ul>
Course organization	
ITC	The Level 2 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in T560393 Courses offered by ITC partners. Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)

**P/N: ITC-CER-5201**

© 2015, FLIR Systems, Inc.

#ITC-CER-5201; r. 23306; en-US

- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°

**P/N: ITC-CER-5201**

© 2015, FLIR Systems, Inc.

#ITC-CER-5201; r. 23306; en-US

- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-CER-5209

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5209  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 2 certified thermographer. The participant will learn about topics in infrared thermography to increase the knowledge about infrared physics, heat science, infrared measurement equipment and its application. As a Level 2 thermographer the participant shall provide guidance to category 1 personnel in the areas of equipment selection, techniques, limitations, data analysis, corrective actions and reporting.

### Content

- Thermal science
- Heat transfer
- Temperature measurement
- Infrared science
- IR equipment and applications

### Student presentations

During the seminar, students shall present a prepared case study to the class. The maximum duration (excl. discussion) should be 7 minutes and the maximum number of 7 slides should not be exceeded.

### Labs (Note: Labs marked "(M)" are mandatory)

- Newton's law (class lab) (M)
- Advanced emissivity measurement (M)
- Variation of emissivity with the angle (M)
- Transient thermal transfer
- Indirect power measurement (M)
- IR-window transmission (M)
- Slit Response Function
- Hole Response Function (M)
- Parallel circuits

### Course information

#### Available languages

Dutch, English, German, French, Italian, Portuguese (bra.), Spanish, Swedish

#### Target group

- Professional user
- This course is designed for thermographers holding a Level 1 certificate, who want to increase their knowledge about IR thermography and who want to qualify as a Level 2 certified thermographer.

**P/N: ITC-CER-5209**

© 2015, FLIR Systems, Inc.

#ITC-CER-5209; r. 23306; en-US

Course information	
Typical student	<ul style="list-style-type: none"> <li>A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>having several months of professional experience within thermography,</li> <li>versed in camera operation and reporting,</li> <li>holding a Level 1 certificate,</li> <li>who needs the Level 2 Certification for guidance and supervision of other thermographers or is interested in deeper understanding of IR thermography.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Valid Level 1 thermography certificate,</li> <li>Recommended experience within thermography according to relevant standards,</li> <li>Prepared case study to be presented at the Level 2 course and submitted towards qualification at course closing.</li> </ul>
Course details	
Duration	40 hours
Structure	Theory, camera practice (hands-on), and prepared case studies alternate every day.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as lunch, instructor's travel expenses, etc. depending on location and organizing entity.</li> </ul>
Course organization	
ITC	The Level 2 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in T560393 Courses offered by ITC partners. Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)

**P/N: ITC-CER-5209**

© 2015, FLIR Systems, Inc.

#ITC-CER-5209; r. 23306; en-US

- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°



**P/N: ITC-CER-5209**

© 2015, FLIR Systems, Inc.

#ITC-CER-5209; r. 23306; en-US

- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-PRA-2011

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-PRA-2011  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

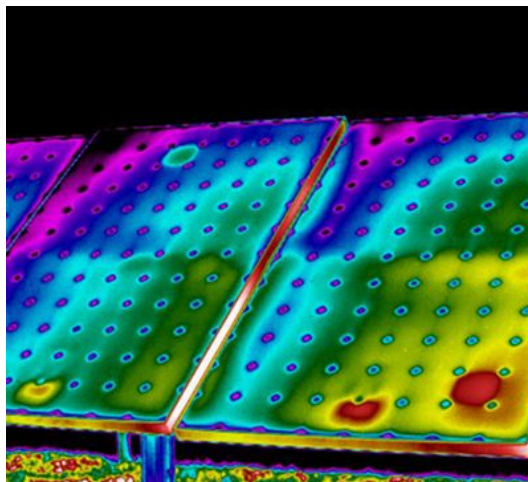
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course gives a general introduction to IR thermography and an overview on its specific use for inspections of photovoltaic solar systems.

During the first day, you learn about the basics of thermography, how a thermal camera works, and how to use it correctly. The second day starts with the basics of photovoltaic solar systems and solar panel installations. You learn about IR metrological particularities that are critical for solar panel inspections with a thermal camera, how to interpret the displayed thermal images, and in which way they can be associated to typical problems and faults. Emphasis is put on case studies, selected from the field, as well as practical exercises.

### Content

- Basics of thermography (radiation, spectral waveband, influences of the atmosphere)
- IR camera: principle, design and operation (FPA, measurement ranges, thermal tuning: level and span, color palettes)
- IR measurement technique: measurement parameters (emissivity, radiation from the environment, distance, relative humidity, atmospheric temperature)
- IR Camera figures of merit: resolution limits (thermal, spatial, time related)
- Practical exercises
- Basics of photovoltaic solar systems (terminology, design, principle of operation, module types)
- Solar panel installation: connection types (string, bypass diodes, shadowing)
- IR metrological particularity (spectral bands, inspection conditions, spatial resolution, camera positioning and angle)
- Typical thermal readouts (examples, causes and interpretation – defect/no defect, practical exercises)

### Course information

Available languages	English, French, German, Swedish, Italian, Dutch, Spanish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in the use of IR thermography for the inspection of photovoltaic solar systems.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person working with maintenance or installation of solar panels.</li> <li>• Thermographers familiar with electrical inspections and interested in solar panel inspections.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic knowledge in electrical installations or another technical field.</li> </ul>

### Course details

Duration	2 days
Structure	Theory, camera handling, demos and practical labs alternate.

**P/N: ITC-PRA-2011**

© 2015, FLIR Systems, Inc.

#ITC-PRA-2011; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by qualified ITC instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Might include more, such as lunch, depending on location</li> </ul>
Course organization	
ITC	The "ITC Practical Course Solar panel inspection" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC or ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Practical Course Solar panel inspection" is lectured by qualified ITC instructors with special experience in the field of solar panel installations.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5



---

**P/N: ITC-PRA-2011**

© 2015, FLIR Systems, Inc.

#ITC-PRA-2011; r. 23306; en-US

- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-PRA-2019

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-PRA-2019  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

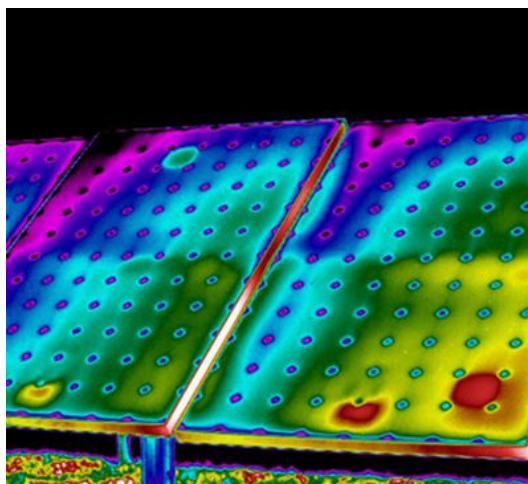
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course gives a general introduction to IR thermography and an overview on its specific use for inspections of photovoltaic solar systems.

During the first day, you learn about the basics of thermography, how a thermal camera works, and how to use it correctly. The second day starts with the basics of photovoltaic solar systems and solar panel installations. You learn about IR metrological particularities that are critical for solar panel inspections with a thermal camera, how to interpret the displayed thermal images, and in which way they can be associated to typical problems and faults. Emphasis is put on case studies, selected from the field, as well as practical exercises.

### Content

- Basics of thermography (radiation, spectral waveband, influences of the atmosphere)
- IR camera: principle, design and operation (FPA, measurement ranges, thermal tuning: level and span, color palettes)
- IR measurement technique: measurement parameters (emissivity, radiation from the environment, distance, relative humidity, atmospheric temperature)
- IR Camera figures of merit: resolution limits (thermal, spatial, time related)
- Practical exercises
- Basics of photovoltaic solar systems (terminology, design, principle of operation, module types)
- Solar panel installation: connection types (string, bypass diodes, shadowing)
- IR metrological particularity (spectral bands, inspection conditions, spatial resolution, camera positioning and angle)
- Typical thermal readouts (examples, causes and interpretation – defect/no defect, practical exercises)

### Course information

Available languages	English, French, German, Swedish, Italian, Dutch, Spanish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in the use of IR thermography for the inspection of photovoltaic solar systems.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person working with maintenance or installation of solar panels.</li> <li>• Thermographers familiar with electrical inspections and interested in solar panel inspections.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic knowledge in electrical installations or another technical field.</li> </ul>

### Course details

Duration	2 days
Structure	Theory, camera handling, demos and practical labs alternate.
Exam	None

**P/N: ITC-PRA-2019**

© 2015, FLIR Systems, Inc.

#ITC-PRA-2019; r. 23306; en-US

Course details	
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by qualified ITC instructor</li> <li>• Training material in printed format</li> <li>• Diploma of attendance</li> <li>• Attendance of a group up to 10 persons</li> <li>• Might include more, such as refreshments or lunch, depending on location.</li> </ul>
Note	Course fee does not include cost for instructor's travelling or lodging.
Course organization	
ITC	The "ITC Practical Course Solar panel inspection" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC or ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Practical Course Solar panel inspection" is lectured by qualified ITC instructors with special experience in the field of solar panel installations.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3



**P/N: ITC-PRA-2019**

© 2015, FLIR Systems, Inc.

#ITC-PRA-2019; r. 23306; en-US

- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-2019

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2019  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course gives a general introduction to IR thermography and an overview on its specific use for the inspection of buildings. It aims at giving you clues on what you can do with your camera.

During the first day, you learn the basics of thermography and how to use your camera the best way. The second day you will start with a brief reminder of thermal transfers before you learn about the building envelope, important physical parameters and typical faults. Emphasis is put on case studies, selected from the field.

### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- IR Camera handling
- Basics of heat transfer
- The building envelope
- Important physical parameters
- Major anomalies
- Thermal patterns
- Application guidelines
- Data analysis and reports

### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement
- Building application labs

### Course information

Available languages	English, French, German, Swedish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in IR thermography and building applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person from the building sector</li> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> <li>• Students and pupils with thermography and building application related projects</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>





## ITC Short course building thermography - inclusive 10 pers. (2 days)

### P/N: ITC-EXP-2019

© 2015, FLIR Systems, Inc.

#ITC-EXP-2019; r. 23306; en-US

Course details	
Duration	2 days
Structure	Theory, camera handling, demos and practical labs alternate.
Exam	None
Course fee includes	<ul style="list-style-type: none"><li>• Tuition by qualified ITC instructor</li><li>• Training material in printed format</li><li>• Diploma of attendance</li><li>• Attendance of a group up to 10 persons</li><li>• Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li></ul>
Course organization	
ITC	The "ITC Short Course Building Thermography" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Building Thermography" is lectured by qualified ITC instructors with special experience in the field of building applications.

### Compatible with the following products

- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-2011

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2011  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course gives a general introduction to IR thermography and an overview on its specific use for the inspection of buildings. It aims at giving you clues on what you can do with your camera.

During the first day, you learn the basics of thermography and how to use your camera the best way. The second day you will start with a brief reminder of thermal transfers before you learn about the building envelope, important physical parameters and typical faults. Emphasis is put on case studies, selected from the field.

### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- IR Camera handling
- Basics of heat transfer
- The building envelope
- Important physical parameters
- Major anomalies
- Thermal patterns
- Application guidelines
- Data analysis and reports

### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement
- Building application labs

### Course information

Available languages	English, French, German, Swedish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in IR thermography and building applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person from the building sector</li> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> <li>• Students and pupils with thermography and building application related projects</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>



**P/N: ITC-EXP-2011**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2011; r. 23306; en-US

Course details	
Duration	2 days
Structure	Theory, camera handling, demos and practical labs alternate.
Exam	None
Course fee includes	<ul style="list-style-type: none"><li>• Tuition by qualified ITC instructor</li><li>• Training material in printed format</li><li>• Diploma of attendance</li><li>• Might include more, such as refreshments or lunch, depending on location and organizing entity</li></ul>
Course organization	
ITC	The "ITC Short Course Building Thermography" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Building Thermography" is lectured by qualified ITC instructors with special experience in the field of building applications.

**Compatible with the following products**

- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-2041

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2041  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course gives a general introduction to IR thermography and an overview on its specific use for inspections of electrical systems. It aims at giving you clues on what you can do with your camera.

During the first day, you learn the basics of thermography and how to use your camera the best way. The second day you will start with a brief reminder of thermal transfers before you learn about electrical systems and components, material properties, typical problems and faults. Emphasis is put on case studies, selected from the field.

### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- IR Camera handling
- Basics of heat transfer
- Electrical systems
- Important properties of material
- Most common problems
- Case studies
- Common mistakes
- Application guidelines
- Data analysis and reports

### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement
- Electrical application labs

### Course information

Available languages	English, French, German, Swedish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in IR thermography and electrical applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person working with maintenance or installation of electrical systems</li> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> <li>• Students and pupils with thermography and electrical application related projects</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>

**P/N: ITC-EXP-2041**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2041; r. 23306; en-US

Course details	
Duration	2 days
Structure	Theory, camera handling, demos and practical labs alternate.
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by qualified ITC instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Might include more, such as lunch, depending on location</li> </ul>
Course organization	
ITC	The "ITC Short Course Electrical Thermography" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Electrical Thermography" is lectured by qualified ITC instructors with special experience in the field of electrical installations.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)



---

**P/N: ITC-EXP-2041**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2041; r. 23306; en-US

- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-2049

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2049  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course gives a general introduction to IR thermography and an overview on its specific use for inspections of electrical systems. It aims at giving you clues on what you can do with your camera.

During the first day, you learn the basics of thermography and how to use your camera the best way. The second day you will start with a brief reminder of thermal transfers before you learn about electrical systems and components, material properties, typical problems and faults. Emphasis is put on case studies, selected from the field.

### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- IR Camera handling
- Basics of heat transfer
- Electrical systems
- Important properties of material
- Most common problems
- Case studies
- Common mistakes
- Application guidelines
- Data analysis and reports

### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement
- Electrical application labs

### Course information

Available languages	English, French, German, Swedish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in IR thermography and electrical applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person working with maintenance or installation of electrical systems</li> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> <li>• Students and pupils with thermography and electrical application related projects</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>

**P/N: ITC-EXP-2049**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2049; r. 23306; en-US

Course details	
Duration	2 days
Structure	Theory, camera handling, demos and practical labs alternate.
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by qualified ITC instructor</li> <li>• Training material in printed format</li> <li>• Diploma of attendance</li> <li>• Attendance of a group up to 10 persons</li> <li>• Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	The "ITC Short Course Electrical Thermography" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Electrical Thermography" is lectured by qualified ITC instructors with special experience in the field of electrical installations.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)





---

**P/N: ITC-EXP-2049**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2049; r. 23306; en-US

- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-2061

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2061  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

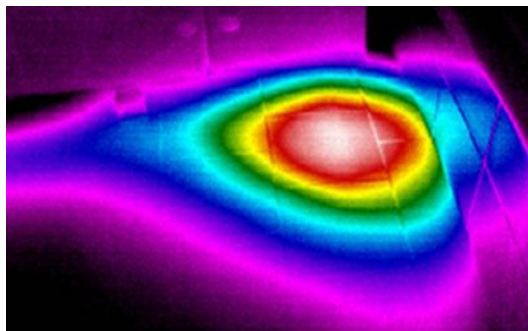
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course gives a general introduction to IR thermography and an overview on its specific use for inspections of heating and HVAC systems, and related installations. It aims at giving you clues on what you can do with your camera.

During the first day, you learn the basics of thermography, and how to use your camera the best way. The second day you will get introduced to various heating systems before you learn about typical faults and how thermography helps you to locate and analyze these. Emphasis is put on case studies, selected from the field.

### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- IR Camera handling
- Heating systems
- Pipe tracing and localization of water circuits
- Water leaks
- Moisture and humidity
- Water radiators
- Tanks, manifolds and plenums
- HVAC systems
- Industrial heat exchangers
- Photovoltaic panel inspection
- Data analysis and reports

### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement
- Application labs

### Course information

Available languages	English, French, German, Italian, Spanish, Swedish
Target group	<ul style="list-style-type: none"> <li>• Beginners and anybody interested in IR thermography, plumbing and HVAC applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Plumbers or persons working with plumbing and or/HVAC systems</li> <li>• Facility managers</li> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>

### Course details

Duration	2 days
Structure	Theory, camera handling, demos and practical labs alternate.



**P/N: ITC-EXP-2061**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2061; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"><li>• Tuition by qualified ITC instructor</li><li>• Training material in printed format</li><li>• Refreshments</li><li>• Diploma of attendance</li><li>• Might include more, such as lunch, depending on location</li></ul>
Course organization	
ITC	The "ITC Short Course HVAC and plumbing" is offered in EMEA by ITC and partners. Specific customer requests shall be forwarded to the closest ITC or ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course HVAC and plumbing" is lectured by qualified ITC instructors with special experience in the field of electrical installations.

**Compatible with the following products**

- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-2069

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2069  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

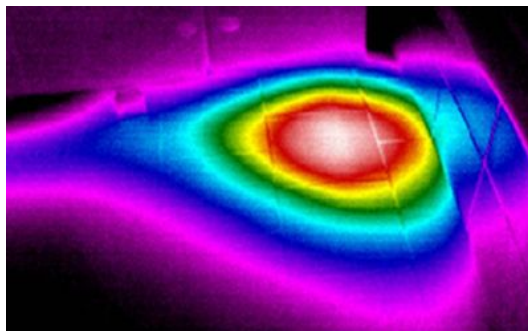
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course gives a general introduction to IR thermography and an overview on its specific use for inspections of heating and HVAC systems, and related installations. It aims at giving you clues on what you can do with your camera.

During the first day, you learn the basics of thermography, and how to use your camera the best way. The second day you will get introduced to various heating systems before you learn about typical faults and how thermography helps you to locate and analyze these. Emphasis is put on case studies, selected from the field.

### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- IR Camera handling
- Heating systems
- Pipe tracing and localization of water circuits
- Water leaks
- Moisture and humidity
- Water radiators
- Tanks, manifolds and plenums
- HVAC systems
- Industrial heat exchangers
- Photovoltaic panel inspection
- Data analysis and reports

### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement
- Application labs

### Course information

Available languages	English, French, German, Italian, Spanish, Swedish
Target group	<ul style="list-style-type: none"> <li>• Beginners and anybody interested in IR thermography, plumbing and HVAC applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Plumbers or persons working with plumbing and or/HVAC systems</li> <li>• Facility managers</li> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>

### Course details

Duration	2 days
Structure	Theory, camera handling, demos and practical labs alternate.
Exam	None



**P/N: ITC-EXP-2069**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2069; r. 23306; en-US

Course details	
Course fee includes	<ul style="list-style-type: none"><li>• Tuition by qualified ITC instructor</li><li>• Training material in printed format</li><li>• Diploma of attendance</li><li>• Attendance of a group up to 10 persons</li><li>• Might include more, such as refreshments or lunch, depending on location.</li></ul>
Note	Course fee does not include cost for instructor's travelling or lodging.

Course organization	
ITC	The "ITC Short Course HVAC and plumbing" is offered in EMEA by ITC and partners. Specific customer requests shall be forwarded to the closest ITC or ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course HVAC and plumbing" is lectured by qualified ITC instructors with special experience in the field of electrical installations.

**Compatible with the following products**

- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-1019

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1019  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This is a full one day course for beginners and everybody interested in IR thermography and its applications. The course covers the basics of IR theory and includes demos, camera hand-on and practical exercises using relevant key labs.

### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- Introduction to electrical and building inspections
- IR Camera handling
- Data analysis and reports

### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement

### Course information

Available languages	English, French, German, Swedish, Danish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in IR thermography and its applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> <li>• A person who starts to use IR cameras at work</li> <li>• Students and pupils with thermography related projects</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>

### Course details

Duration	1 day
Structure	Theory, camera handling and demos in the morning. Practical labs in the afternoon.

**P/N: ITC-EXP-1019**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1019; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by qualified ITC instructor</li> <li>• Training material in printed format</li> <li>• Diploma of attendance</li> <li>• Attendance of a group up to 10 persons</li> <li>• Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	The "ITC Short Course Introduction to Thermography" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Introduction to Thermography" is lectured by qualified ITC instructors with long time experience in the various fields of thermography.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)

**P/N: ITC-EXP-1019**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1019; r. 23306; en-US

- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC





---

**P/N: ITC-EXP-1019**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1019; r. 23306; en-US

- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-1011

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1011  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This is a full one day course for beginners and everybody interested in IR thermography and its applications. The course covers the basics of IR theory and includes demos, camera hand-on and practical exercises using relevant key labs.

#### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- Introduction to electrical and building inspections
- IR Camera handling
- Data analysis and reports

#### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement

### Course information

Available languages	English, French, German, Swedish, Danish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in IR thermography and its applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> <li>• A person who starts to use IR cameras at work</li> <li>• Students and pupils with thermography related projects</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>

### Course details

Duration	1 day
Structure	Theory, camera handling and demos in the morning. Practical labs in the afternoon.

**P/N: ITC-EXP-1011**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1011; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by qualified ITC instructor</li> <li>• Training material in printed format</li> <li>• Diploma of attendance</li> <li>• Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>
Course organization	
ITC	The "ITC Short Course Introduction to Thermography" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Introduction to Thermography" is lectured by qualified ITC instructors with long time experience in the various fields of thermography.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)

**P/N: ITC-EXP-1011**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1011; r. 23306; en-US

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL

---

**P/N: ITC-EXP-1011**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1011; r. 23306; en-US

- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-SOW-0001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-SOW-0001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
These courses are for users of FLIR software like FLIR Reporter Professional or FLIR ResearchIR. Please observe that content and labs depend on the software used.	
Content	
<ul style="list-style-type: none"> <li>• System requirements</li> <li>• Configuration</li> <li>• Analyzing functions</li> <li>• Templates</li> <li>• Reporting functions</li> <li>• Data exchange</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>• System set up</li> <li>• Data import</li> <li>• Data analysis</li> <li>• Creating templates</li> <li>• Creating reports</li> <li>• Exporting data</li> <li>• Triggering</li> </ul>	
Course information	
Available languages	English, French, German, other languages upon request
Target group	<ul style="list-style-type: none"> <li>• Persons interested in, or users, of the specific software.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Consultants interested in reporting</li> <li>• Building inspectors with reporting needs</li> <li>• R&amp;D staff interested in advanced data analysis</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Laptop with installed software full version or 30 day demo (download on <a href="http://www.flir.com">www.flir.com</a>)</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic knowledge about thermography and related parameters.</li> </ul>
Course details	
Duration	Depends on software.
Structure	Short system introduction, then demos and practical exercises.

**P/N: ITC-SOW-0001**

© 2015, FLIR Systems, Inc.  
#ITC-SOW-0001; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>
Course organization	
ITC	Software courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Software courses are lectured by ITC qualified instructors experienced in usage of the software being subject of the class.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)

**P/N: ITC-SOW-0001**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0001; r. 23306; en-US

- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°



**P/N: ITC-SOW-0001**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0001; r. 23306; en-US

- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-SOW-0009

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-SOW-0009  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
These courses are for users of FLIR software like FLIR Reporter Professional or FLIR ResearchIR. Please observe that content and labs depend on the software used.	
Content	
<ul style="list-style-type: none"> <li>• System requirements</li> <li>• Configuration</li> <li>• Analyzing functions</li> <li>• Templates</li> <li>• Reporting functions</li> <li>• Data exchange</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>• System set up</li> <li>• Data import</li> <li>• Data analysis</li> <li>• Creating templates</li> <li>• Creating reports</li> <li>• Exporting data</li> <li>• Triggering</li> </ul>	
Course information	
Available languages	English, French, German, other languages upon request
Target group	<ul style="list-style-type: none"> <li>• Persons interested in, or users, of the specific software.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Consultants interested in reporting</li> <li>• Building inspectors with reporting needs</li> <li>• R&amp;D staff interested in advanced data analysis</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Laptop with installed software full version or 30 day demo (download on <a href="http://www.flir.com">www.flir.com</a>)</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic knowledge about thermography and related parameters.</li> </ul>
Course details	
Duration	Depends on software.
Structure	Short system introduction, then demos and practical exercises.

**P/N: ITC-SOW-0009**

© 2015, FLIR Systems, Inc.  
#ITC-SOW-0009; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	Software courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Software courses are lectured by ITC qualified instructors experienced in usage of the software being subject of the class.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm

**P/N: ITC-SOW-0009**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0009; r. 23306; en-US

- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°

**P/N: ITC-SOW-0009**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0009; r. 23306; en-US

- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-1001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	1 day
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-1001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1001; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-1001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1001; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°



**P/N: ITC-EXP-1001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1001; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-1009

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1009  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	1 day
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-1009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1009; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-1009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1009; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-1009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1009; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-2001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	2 days
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-2001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2001; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-2001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2001; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°



**P/N: ITC-EXP-2001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2001; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-2009

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2009  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	2 days
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-2009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2009; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-2009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2009; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-2009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2009; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-3001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-3001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	3 days
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-3001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3001; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-3001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3001; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°



**P/N: ITC-EXP-3001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3001; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-3009

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-3009  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	3 days
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-3009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3009; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-3009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3009; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-3009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3009; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-SOW-1001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-SOW-1001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

ITC Training FLIR Software - attendance 1 pers. (1 day)

### Course details

Duration	1 day
----------	-------

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)



---

**P/N: ITC-SOW-1001**

© 2015, FLIR Systems, Inc.

#ITC-SOW-1001; r. 23306; en-US

- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-SOW-2001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-SOW-2001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

ITC Training FLIR Software - attendance 1 pers. (2 days)

### Course details

Duration	2 days
----------	--------

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)





---

**P/N: ITC-SOW-2001**

© 2015, FLIR Systems, Inc.

#ITC-SOW-2001; r. 23306; en-US

- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TFT-0100

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TFT-0100  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

ITC travel time for instructor

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TFT-0100**

© 2015, FLIR Systems, Inc.  
#ITC-TFT-0100; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TFT-0100**

© 2015, FLIR Systems, Inc.  
#ITC-TFT-0100; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-FEE-0130

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-FEE-0130  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
EN - Repeat Certification EN473 IT Category 1	
Course information	
Available languages	DACH only
Course details	
Duration	1 day

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)

---

**P/N: ITC-FEE-0130**

© 2015, FLIR Systems, Inc.

#ITC-FEE-0130; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TOL-1003

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1003  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (Center and South Africa)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1003**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1003; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC



**P/N: ITC-TOL-1003**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1003; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TOL-1001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (Europe, Balcans, Turkey, Cyprus)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1001**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1001; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TOL-1001**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1001; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TOL-1005

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1005  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (other)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1005**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1005; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TOL-1005**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1005; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TOL-1002

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1002  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (Russia/GUS, Middle East, North Africa)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)



**P/N: ITC-TOL-1002**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1002; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TOL-1002**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1002; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TOL-1004

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1004  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (various)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1004**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1004; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TOL-1004**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1004; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

# Accessories for FLIR Txxx series (discontinued camera series)

---

## P/N: 19250-100

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 19250-100  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This device is a viewport which consist of a crystal "glass" window, mounted in an aluminum frame. The glass is specially formulated to allow transmission of infrared light to allow use of infrared thermal sensing equipment without opening the enclosure. This device is intended for installation in doors or walls of electrical enclosures without compromising the integrity of the enclosure.	
Power system	
Voltage	Any range
Environmental data	
Environment	Indoor/outdoor type 4/12
Operating temperature range	Maximum: 260°C (500°F)
Storage temperature range	Optics, maximum: 1357°C (2474°F)
Physical data	
Size (L x W x H)	25.5 x 73 x 86 mm (1.0 x 2.87 x 3.36 in.)
Viewing aperture diameter	45 mm (1.77 in.)
Material	Optics: CaF2 (Calcium Fluoride Crystal) Body: Anodized aluminum Hardware: steel
Comments to physical data	Required hole diameter, nominal: 60.3 mm (2.375 in.) Greenlee Punch: 76BB Maximum pullout strength: 658 kg (1450 lb.)
Lens	
Waveband	Broadband IR: short-, mid-, and longwave
Visible light spectrum	Yes
Certifications	
Certification	UL, IP67, NEMA Type 4/12, CSA
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>IR window</li> <li>Case</li> <li>Mounting instruction</li> <li>Additional safety screw</li> </ul>
Packaging, weight	0.24 kg (0.53 lb.)
Packaging, size	120 x 115 x 40 mm (4.7 x 4.5 x 1.6 in.)
EAN-13	4743254000728
UPC-12	845188002817
Country of origin	Estonia



IR Window 2 in

---

**P/N: 19250-100**

© 2015, FLIR Systems, Inc.  
#19250-100; r. 23306; en-US

**Supplies & accessories:**



## P/N: 19251-100

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 19251-100  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This device is a viewport which consist of a crystal "glass" window, mounted in an aluminum frame. The glass is specially formulated to allow transmission of infrared light to allow use of infrared thermal sensing equipment without opening the enclosure. This device is intended for installation in doors or walls of electrical enclosures without compromising the integrity of the enclosure.	
Power system	
Voltage	Any range
Environmental data	
Environment	Indoor/outdoor type 4/12
Operating temperature range	Maximum: 260°C (500°F)
Storage temperature range	Optics, maximum: 1357°C (2474°F)
Physical data	
Size (L × W × H)	26.9 × 99 × 107 mm (1.05 × 3.89 × 4.22 in.)
Viewing aperture diameter	69 mm (2.71 in.)
Material	Optics: CaF <sub>2</sub> (Calcium Fluoride Crystal) Body: Anodized aluminum Hardware: steel
Comments to physical data	Required hole diameter, nominal: 88.9 mm (3.5 in.) Greenlee Punch: 739BB Maximum pullout strength: 1656 kg (3650 lb.)
Lens	
Waveband	Broadband IR: short-, mid-, and longwave
Visible light spectrum	Yes
Certifications	
Certification	UL, IP67, NEMA Type 4/12, CSA
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>IR window</li> <li>Case</li> <li>Mounting instruction</li> <li>Additional safety screw</li> </ul>
Packaging, weight	0.39 kg (0.86 lb.)
Packaging, size	130 × 140 × 40 mm (5.12 × 5.51 × 1.58 in.)
EAN-13	4743254000735
UPC-12	845188002824
Country of origin	Estonia



IR Window 3 in.

---

**P/N: 19251-100**

© 2015, FLIR Systems, Inc.  
#19251-100; r. 23306; en-US

**Supplies & accessories:**

## P/N: 19252-100

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 19252-100  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This device is a viewport which consist of a crystal "glass" window, mounted in an aluminum frame. The glass is specially formulated to allow transmission of infrared light to allow use of infrared thermal sensing equipment without opening the enclosure. This device is intended for installation in doors or walls of electrical enclosures without compromising the integrity of the enclosure.	
Power system	
Voltage	Any range
Environmental data	
Environment	Indoor/outdoor type 4/12
Operating temperature range	Maximum: 260°C (500°F)
Storage temperature range	Optics, maximum: 1357°C (2474°F)
Physical data	
Size (L x W x H)	29.3 x 127 x 137 mm (1.15 x 5.01 x 5.37 in.)
Viewing aperture diameter	89 mm (3.50 in.)
Material	Optics: CaF <sub>2</sub> (Calcium Fluoride Crystal) Body: Anodized aluminum Hardware: steel
Comments to physical data	Required hole diameter, nominal: 114.3 mm (4.5 in.) Greenlee Punch: 742BB Maximum pullout strength: 1678 kg (3700 lb.)
Lens	
Waveband	Broadband IR: short-, mid-, and longwave
Visible light spectrum	Yes
Certifications	
Certification	UL, IP67, NEMA Type 4/12, CSA
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>IR window</li> <li>Case</li> <li>Mounting instruction</li> <li>Additional safety screw</li> </ul>
Packaging, weight	0.46 kg (1.01 lb.)
Packaging, size	165 x 175 x 40 mm (6.50 x 6.89 x 1.58 in.)
EAN-13	4743254000742
UPC-12	845188002831
Country of origin	Estonia



IR Window 4 in.

---

**P/N: 19252-100**

© 2015, FLIR Systems, Inc.  
#19252-100; r. 23306; en-US

**Supplies & accessories:**

## P/N: 1196961

### Copyright

© 2015, FLIR Systems, Inc.

All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1196961

Commit: 23380

Language: en-US

Modified: 2015-02-24 14:12

Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.

27700 SW Parkway Ave.

Wilsonville, OR 97070

USA

Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
The 15° lens is a popular lens accessory and provides 1.7× magnification compared to the standard lens. Ideal for small or distant targets such as overhead power lines.	
Imaging and optical data	
Field of view (FOV)	15° × 11.25°
Minimum focus distance	1.2 m (3.93 ft.)
Focal length	30.38 mm (1.2 in.)
Spatial resolution (IFOV)	Depends on the IR resolution of the camera: 1.65 mrad for 160 × 120 pixels 1.32 mrad for 200 × 150 pixels 1.10 mrad for 240 × 180 pixels 0.82 mrad for 320 × 240 pixels
F-number	1.3
Physical data	
Weight	0.092 kg (0.203 lb.), incl. two lens caps
Size (L × D)	24 × 58 mm (1.0 × 2.3 in.)
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Lens</li> <li>• Lens case</li> </ul>
Packaging, weight	0.32 kg (0.71 lb.)
Packaging, size	172 × 131 × 133 mm (6.8 × 5.2 × 5.2 in.)
EAN-13	7332558001134 4743254000889 (Estonia plant)
UPC-12	845188000127
Country of origin	Sweden

### Compatible with the following products

- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)

---

**P/N: 1196961**

© 2015, FLIR Systems, Inc.  
#1196961; r. 23380; en-US

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: 1196960

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1196960  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This wide angle lens has a field of view almost double that of the standard lens. Perfect for wide or tall targets or when working in crowded spaces.	
Imaging and optical data	
Field of view (FOV)	45° × 33.8°
Minimum focus distance	0.20 m (0.66 ft.)
Focal length	9.66 mm (0.38 in.)
Spatial resolution (IFOV)	Depends on the IR resolution of the camera: 5.18 mrad for 160 × 120 pixels 4.14 mrad for 200 × 150 pixels 3.45 mrad for 240 × 180 pixels 2.59 mrad for 320 × 240 pixels
F-number	1.3
Physical data	
Weight	0.105 kg (0.231 lb.), incl. two lens caps
Size (L × D)	38 × 47 mm (1.5 × 1.9 in.)
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Lens</li> <li>• Lens case</li> </ul>
Packaging, weight	0.33 kg (0.73 lb.)
Packaging, size	172 × 131 × 133 mm (6.8 × 5.2 × 5.2 in.)
EAN-13	7332558001141 4743254000834 (Estonia plant)
UPC-12	845188000134
Country of origin	Sweden

### Compatible with the following products

- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)

---

**P/N: 1196960**

© 2015, FLIR Systems, Inc.  
#1196960; r. 23380; en-US

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)



## P/N: T197215

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197215  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
For R&D usage or development purposes. As an example looking at PCB's or small electronic components.	
Imaging and optical data	
Field of view (FOV)	32 × 24 mm
Magnifying factor	4×
Working distance	79 mm
Depth of field	±2.0 mm
Focal length	73 mm (2.9 in.)
Spatial resolution (IFOV)	Depends on the IR resolution of the camera: 200 µm for 160 × 120 pixels 160 µm for 200 × 150 pixels 133 µm for 240 × 180 pixels 100 µm for 320 × 240 pixels
F-number	1.3
Number of lenses	2 (2 asph)
MTF @ 70% of FOV	Normal requirements (52%)
Distortion	3%
Physical data	
Weight	0.11 kg (0.24 lb.)
Size (L × D)	35.2 × 55 mm
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Lens</li> <li>• Lens case</li> </ul>
Packaging, weight	0.340 kg (0.75 lb.)
Packaging, size	172 × 131 × 133 mm (6.8 × 5.2 × 5.2 in.)
EAN-13	7332558005088
UPC-12	845188005115
Country of origin	Sweden

### Compatible with the following products

- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)

---

**P/N: T197215**

© 2015, FLIR Systems, Inc.  
#T197215; r. 23380; en-US

- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc

## P/N: T197214

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197214  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
For R&D usage or development purposes. As an example looking at PCB's or small electronic components.	
Imaging and optical data	
Field of view (FOV)	16 × 12 mm
Magnifying factor	2×
Working distance	33 mm
Depth of field	±0.4 mm
Focal length	37 mm (1.5 in.)
Spatial resolution (IFOV)	Depends on the IR resolution of the camera: 100 µm for 160 × 120 pixels 80 µm for 200 × 150 pixels 67 µm for 240 × 180 pixels 50 µm for 320 × 240 pixels
F-number	1.3
Number of lenses	2 (2 asph)
MTF @ 70% of FOV	Normal requirements (52%)
Distortion	3%
Physical data	
Weight	0.11 kg (0.24 lb.)
Size (L × D)	35.2 × 55 mm
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Lens</li> <li>• Lens case</li> </ul>
Packaging, weight	0.346 kg (0.8 lb.)
Packaging, size	172 × 131 × 133 mm (6.8 × 5.2 × 5.2 in.)
EAN-13	7332558005095
UPC-12	845188005122
Country of origin	Sweden

### Compatible with the following products

- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)

---

**P/N: T197214**

© 2015, FLIR Systems, Inc.  
#T197214; r. 23380; en-US

- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 TempScreen
- 42701-1201; FLIR A320 TempScreen (9 Hz)
- 48001-1001; FLIR A325sc

## P/N: T197408

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197408  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
A narrow FOV is used in applications where the object that is going to be monitored is remote from the Camera or when the Camera needs to be far away from the object due to for an example high temperatures.	
Imaging and optical data	
Field of view (FOV)	6° × 4.5°
Minimum focus distance	4 m (13.11 ft.)
Focal length	76 mm (3.0 in.)
Spatial resolution (IFOV)	Depends on the IR resolution of the camera: 0.66 mrad for 160 × 120 pixels 0.53 mrad for 200 × 150 pixels 0.44 mrad for 240 × 180 pixels 0.33 mrad for 320 × 240 pixels
F-number	1.3
Number of lenses	3 (3 asph)
MTF @ 70% of FOV	Normal requirements (52%)
Distortion	3%
Physical data	
Weight	Lens: 0.328 kg (0.723 lb.) Support: 0.099 kg (0.218 lb.)
Size (L × D)	106 × 89 mm (4.17 × 3.48 in.), excluding support
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Lens</li> <li>• Lens case</li> <li>• Mounting support</li> </ul>
Packaging, weight	1.211 kg (2.7 lb.)
Packaging, size	385 × 308 × 165 mm (15.2 × 12.1 × 6.5 in.)
EAN-13	7332558004524
UPC-12	845188004491
Country of origin	Sweden

### Compatible with the following products

- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)



IR lens, 76 mm (6°) with case and mounting support for T/B-200/400

---

**P/N: T197408**

© 2015, FLIR Systems, Inc.  
#T197408; r. 23380; en-US

- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)

## P/N: T197412

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197412  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
A wide angle lens is used when working in confined areas or when a large object area needs to be covered. This lens is also designed for to look in to electrical cabinets down to 1/2" windows	
Imaging and optical data	
Field of view (FOV)	90° × 73°
Minimum focus distance	40 mm (1.57 in.)
Focal length	4 mm (0.157 in.)
Spatial resolution (IFOV)	Depends on the IR resolution of the camera: 12.5 mrad for 160 × 120 pixels 10.0 mrad for 200 × 150 pixels 8.33 mrad for 240 × 180 pixels 6.25 mrad for 320 × 240 pixels
F-number	1.3
Number of lenses	3 (3 asph)
MTF @ 70% of FOV	Normal requirements (52%)
Distortion	5%
Physical data	
Weight	Lens: 0.262 kg (0.578 lb.) Support: 0.053 kg (0.117 lb.)
Size (L × D)	90 × 60 mm (3.54 × 2.36 in.), excluding support
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Lens</li> <li>• Lens case</li> <li>• Mounting support</li> </ul>
Packaging, weight	1.056 kg (2.3 lb.)
Packaging, size	385 × 308 × 165 mm (15.2 × 12.1 × 6.5 in.)
EAN-13	7332558004517
UPC-12	845188004484
Country of origin	Sweden

### Compatible with the following products

- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)



IR lens, 4 mm (90°) with case and mounting support for T/B2xx-4xx

---

**P/N: T197412**

© 2015, FLIR Systems, Inc.  
#T197412; r. 23380; en-US

- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)



**P/N: 1196818**

**Copyright**

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

**Document identity**

Publ. No.: 1196818  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

**Corporate Headquarters**

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

**Website**

<http://www.flir.com>

**Customer support**

<http://support.flir.com>

**Disclaimer**

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Lens cap for the camera	
Physical data	
Weight	6 g (0.2 oz.)
Color	Black
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558001257
UPC-12	845188009557
Country of origin	Sweden

**Compatible with the following products**

- N/A

## P/N: T197000

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197000  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

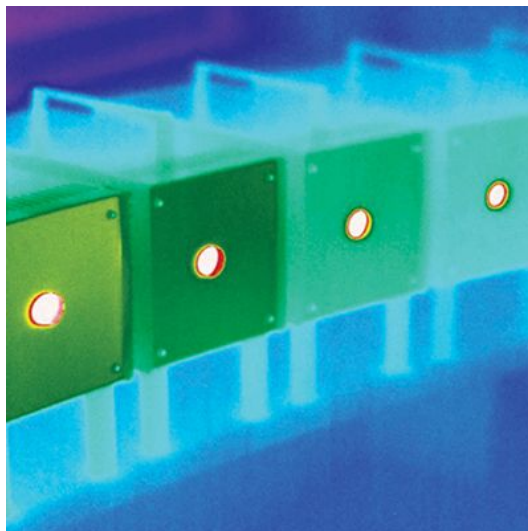
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
For high temperature applications the camera can be calibrated for high temperature ranges.	
Measurement	
Optional object temperature range	+200°C to +1200°C (+392°F to +2192°F)

### Compatible with the following products

- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL



High temp. option +1200°C/+2192°F for FLIR T/B2xx to T/B4xx and A3xx, A3xxf, A3xxpt, A3xxsc series

---

**P/N: T197000**

© 2015, FLIR Systems, Inc.  
#T197000; r. 23306; en-US

- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL

## P/N: 1196398ACC

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1196398ACC  
Commit: 23871  
Language: en-US  
Modified: 2015-03-10 13:36  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
High capacity battery for the IR camera.	
Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	7.2 V
Battery capacity	2.2 Ah, at +20°C (+68°F)
Battery note	Approximate lithium content: 1.0 g
Charging time	2.5 h to 95% capacity, charging status indicated by LEDs
Charging temperature	0°C to +45°C (+32°F to +113°F)
Environmental data	
Battery storage temperature range	-40°C to +70°C (-40°F to +158°F)
Physical data	
Battery weight	0.12 kg (0.26 lb.)
Size (L x W x H)	92 x 41 x 26 mm (3.6 x 1.6 x 1.0 in.)
Shipping information	
Packaging, type	Cardboard box
List of contents	• Battery
Packaging, weight	0.21 kg (0.46 lb.)
Packaging, size	183 x 136 x 63 mm (7.2 x 5.4 x 2.5 in.)
EAN-13	7332558007921
UPC-12	845188008284
Country of origin	Sweden

### Compatible with the following products

- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)

## P/N: T198509

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198509  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This cable is used to power the infrared camera from the cigarette lighter socket in a car.	
Note: This is the same product as p/n 1196497.	
Physical data	
Cable length	1.2 m (3.9 ft).
Shipping information	
Packaging, type	Cardboard box
Packaging, weight	0.125 kg (0.28 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558004340 4743254001435 (Estonia plant)
UPC-12	845188004361
Country of origin	Sweden

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)

**P/N: T198509**

© 2015, FLIR Systems, Inc.  
#T198509; r. 23306; en-US

- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72201-0106; FLIR K45
- 72201-0206; FLIR K55

## P/N: T197667

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197667  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
A complete battery package consisting of three standard products	
Shipping information	
List of contents	<ul style="list-style-type: none"> <li>T197648 Battery kit, see 1196398 - Battery for specifications</li> <li>T197650 2-bay charger kit incl Power supply</li> <li>T197649 12 VDC Connection cable kit, see 1196497 - 12 VDC connection cable for specifications</li> </ul>
EAN-13	7332558009307
UPC-12	845188009830
Country of origin	Sweden

### Compatible with the following products

- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)

### P/N: T197650

#### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

#### Document identity

Publ. No.: T197650  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

#### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

#### Website

<http://www.flir.com>

#### Customer support

<http://support.flir.com>

#### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Stand-alone 2-bay battery charger, including power supply with multi plugs.	
Power system	
AC operation	100–240 VAC, 50/60 Hz, 12 VDC out
Power	2000 mA at 12 VDC
Physical data	
Battery charger size (L × W × H)	80 × 98 × 47 mm (3.2 × 3.9 × 1.8 in.), without battery
Cable length	1.98 m (6.5 ft.)
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Stand-alone 2-bay battery charger</li> <li>• Power supply including cable</li> <li>• EU plug</li> <li>• UK plug</li> <li>• US plug</li> <li>• AU plug</li> </ul>
Packaging, weight	0.542 kg (1.2 lb.)
Packaging, size	243 × 165 × 82 mm (9.6 × 6.5 × 3.2 in.)
EAN-13	7332558007914
UPC-12	845188002657
Country of origin	Sweden

#### Compatible with the following products

- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)



## P/N: T910814

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T910814  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
FLIR P/B/SC6xx and FLIR GF3xx series:	
Power supply, including multiple plugs, to charge the battery when it is inside or outside of the camera.	
FLIR T6xx and FLIR Exx series:	
Power supply, including multiple plugs, to charge the battery when it is inside the camera or in the battery charger.	
Power system	
AC operation	100–240 VAC, 50/60 Hz, 12 VDC out
Power	3000 mA at 12 VDC
Physical data	
Cable length	1.98 m (6.5 ft.)
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Power supply including cable</li> <li>EU plug</li> <li>UK plug</li> <li>US plug</li> <li>AU plug</li> </ul>
Packaging, weight	0.324 kg (9.7 lb.)
Packaging, size	152 × 78 × 73 mm (6.0 × 3.1 × 2.9 in.)
EAN-13	7332558003794 4743254001763 (Estonia plant)
UPC-12	845188002145
Country of origin	Sweden

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)

**P/N: T910814**

© 2015, FLIR Systems, Inc.  
#T910814; r. 23306; en-US

- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)



Power supply, incl. multi plugs

---

**P/N: T910814**

© 2015, FLIR Systems, Inc.  
#T910814; r. 23306; en-US

- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

**P/N: 1910423**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 1910423  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This cable is used to connect the infrared camera with a computer, using the USB protocol.	
Physical data	
Weight	60 g (2.1 oz.)
Cable length	1.8 m (5.9 ft.)
Connector	Standard USB-A to USB Mini-B
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558003428
UPC-12	845188002176
Country of origin	Sweden

## Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)

**P/N: 1910423**

© 2015, FLIR Systems, Inc.  
#1910423; r. 23306; en-US

- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40



---

**P/N: 1910423**

© 2015, FLIR Systems, Inc.  
#1910423; r. 23306; en-US

- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72201-0106; FLIR K45
- 72201-0206; FLIR K55

## P/N: T198370ACC

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198370ACC  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Rugged, watertight plastic shipping case. Holds all items neatly and securely. The case can be locked with padlocks and features a membrane to prevent pressure build-up in airplane cargo holds.	
Physical data	
Weight	2.54 kg (5.59 lb.)
Size (L x W x H)	484 x 345 x 178 mm (19.1 x 13.6 x 7.0 in.)
Material	PP with Rubber Blend (Polypropylene)
Color	Black
Shipping information	
Packaging, type	Cardboard box
List of contents	• Hard transport case
Packaging, weight	3.05 kg (6.72 lb.)
Packaging, size	495 x 370 x 192 mm (19.5 x 14.6 x 7.6 in.)
EAN-13	7332558008348
UPC-12	845188008697
Country of origin	Sweden

### Compatible with the following products

- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)

## P/N: 1124545

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1124545  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Pouch, with strap and belt clip, to carry and protect the camera, made in durable nylon.	
Shipping information	
List of contents	<ul style="list-style-type: none"><li>• Pouch</li><li>• Strap</li><li>• Clip</li></ul>
EAN-13	7332558001233
UPC-12	845188000165
Country of origin	Sweden

### Compatible with the following products

- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)



## P/N: T951387

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T951387  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Wi-Fi USB adapter for wireless connection between the infrared camera and external equipment.	
NOTE: Only for use in markets accepting CE and FCC regulations for wireless equipment.	
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Wi-Fi USB micro adapter</li> </ul>
Packaging, weight	0.062 kg (0.14 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005859
UPC-12	845188006068
Country of origin	Sweden

### Compatible with the following products

- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

**P/N: T198586**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: T198586  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description
FLIR Reporter Professional is a powerful software for creating compelling and professional, fully customized, easy-to-interpret maintenance reports.
Professional Report Wizard guides you step-by-step in combining all IR inspection data - infrared and visual images, temperature measurements, and text notes – into a professional, easy-to-interpret maintenance report.
Key features:
<ul style="list-style-type: none"> <li>• Flexible report page design and layout for customized reports</li> <li>• Use quick insert function to easily create custom report pages</li> <li>• Fully integrated with standard Microsoft Word</li> <li>• Generates reports in standard MS Office format and PDF-format</li> <li>• Powerful temperature analysis</li> <li>• Triple Fusion Picture-in-Picture (movable, sizable, scalable)</li> <li>• Rapid report manager supporting automatic report generation by drag-and-drop</li> <li>• Support for MSX (Multi-Spectral Dynamic Imaging) images</li> <li>• Support for sketch images in both IR and visual with on/off toggling</li> <li>• Support for same FOV ("Field of View Match")</li> <li>• Grid settings</li> <li>• Trending functionality</li> <li>• Automatic link to Google™ Maps for images with GPS coordinates</li> <li>• Automatic summary table for the report</li> <li>• Fine tune images and make full temperature analysis directly in Microsoft Word</li> <li>• Spell check</li> <li>• Create your own formulas including measurement values from images</li> <li>• Play radiometric sequences directly in the report</li> <li>• Search functionality to quickly finding images for your report</li> <li>• Panorama tool for combining several images to a larger image</li> <li>• Support for GF series IR images</li> <li>• Auto Update function</li> <li>• Office 2003 (32-bit), Office 2007 (32-bit) and Office 2010 (32-bit)</li> <li>• Windows 7 (32 and 64-bit), Windows Vista (32 and 64-bit)</li> <li>• Support for METERLiNK™ data</li> <li>• *.docx compatibility</li> </ul>
Download
Download your copy of FLIR Reporter Professional here:
<a href="http://support.flir.com/reporter">http://support.flir.com/reporter</a>

**P/N: T198586**

© 2015, FLIR Systems, Inc.  
#T198586; r. 23306; en-US

Release notes	
Version	9.2
New features	<ul style="list-style-type: none"> <li>— News in 9.2: —</li> <li>Option to hide Zoom Viewer</li> <li>Option to extract Visual image from MSI/Fusion image.</li> <li>Support for the new FLIR Ex and Exx series cameras.</li> <li>Support for multispectral images.</li> <li>Support for auto-oriented images.</li> <li>Various bug fixes.</li> </ul>
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>FLIR Reporter Professional scratchcard</li> </ul>
Packaging, weight	0.135 kg (0.3 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005286 4743254001893 (Estonia plant)
UPC-12	845188005498
Country of origin	Sweden
System requirements	
Operating system	<ul style="list-style-type: none"> <li>Windows XP, 32-bit</li> <li>Windows Vista, 32-bit</li> <li>Windows Vista, 64-bit</li> <li>Windows 7, 32-bit</li> <li>Windows 7, 64-bit</li> </ul>
Software requirements	<ul style="list-style-type: none"> <li>Office 2007 (32-bit)</li> <li>Office 2010 (32-bit)</li> </ul>

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)

**P/N: T198586**

© 2015, FLIR Systems, Inc.  
#T198586; r. 23306; en-US

- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

**P/N: T198586**

## Copyright

© 2015, FLIR Systems, Inc.

All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: T198586

Commit: 23306

Language: en-US

Modified: 2015-02-23 15:46

Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.

27700 SW Parkway Ave.

Wilsonville, OR 97070

USA

Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

FLIR Reporter Professional is a powerful software for creating compelling and professional, fully customized, easy-to-interpret maintenance reports.

Professional Report Wizard guides you step-by-step in combining all IR inspection data - infrared and visual images, temperature measurements, and text notes – into a professional, easy-to-interpret maintenance report.

## Key features:

- Flexible report page design and layout for customized reports
- Use quick insert function to easily create custom report pages
- Fully integrated with standard Microsoft Word
- Generates reports in standard MS Office format and PDF-format
- Powerful temperature analysis
- Triple Fusion Picture-in-Picture (movable, sizable, scalable)
- Rapid report manager supporting automatic report generation by drag-and-drop
- Support for MSX (Multi-Spectral Dynamic Imaging) images
- Support for sketch images in both IR and visual with on/off toggling
- Support for same FOV ("Field of View Match")
- Grid settings
- Trending functionality
- Automatic link to Google™ Maps for images with GPS coordinates
- Automatic summary table for the report
- Fine tune images and make full temperature analysis directly in Microsoft Word
- Spell check
- Create your own formulas including measurement values from images
- Play radiometric sequences directly in the report
- Search functionality to quickly finding images for your report
- Panorama tool for combining several images to a larger image
- Support for GF series IR images
- Auto Update function
- Office 2003 (32-bit), Office 2007 (32-bit) and Office 2010 (32-bit)
- Windows 7 (32 and 64-bit), Windows Vista (32 and 64-bit)
- Support for METERLiNK™ data
- \*.docx compatibility

## Download

Download your copy of FLIR Reporter Professional here:

<http://support.flir.com/reporter>

**P/N: T198586**

© 2015, FLIR Systems, Inc.  
#T198586; r. 23306; en-US

Release notes	
Version	9.2
New features	<ul style="list-style-type: none"> <li>— News in 9.2: —</li> <li>Option to hide Zoom Viewer</li> <li>Option to extract Visual image from MSI/Fusion image.</li> <li>Support for the new FLIR Ex and Exx series cameras.</li> <li>Support for multispectral images.</li> <li>Support for auto-oriented images.</li> <li>Various bug fixes.</li> </ul>
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>FLIR Reporter Professional scratchcard</li> </ul>
Packaging, weight	0.135 kg (0.3 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005286 4743254001893 (Estonia plant)
UPC-12	845188005498
Country of origin	Sweden
System requirements	
Operating system	<ul style="list-style-type: none"> <li>Windows XP, 32-bit</li> <li>Windows Vista, 32-bit</li> <li>Windows Vista, 64-bit</li> <li>Windows 7, 32-bit</li> <li>Windows 7, 64-bit</li> </ul>
Software requirements	<ul style="list-style-type: none"> <li>Office 2007 (32-bit)</li> <li>Office 2010 (32-bit)</li> </ul>

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)

**P/N: T198586**

© 2015, FLIR Systems, Inc.  
#T198586; r. 23306; en-US

- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: T198584

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198584  
Commit: 25122  
Language: en-US  
Modified: 2015-04-29 09:51  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
FLIR Tools is a software suite specifically designed to provide an easy way to update your camera and create inspection reports.	
Key features:	
<ul style="list-style-type: none"> <li>Report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR).</li> <li>Manual IR/Visual Image Grouping</li> <li>Import images from your camera to your computer.</li> <li>Apply filters when searching for images.</li> <li>Search all text in images and text annotations.</li> <li>Store the five latest search criteria's.</li> <li>Lay out, move, and resize measurement tools on any infrared image.</li> <li>Create PDF imagesheets of any images of your choice.</li> <li>Add headers, footers, and logos to imagesheets.</li> <li>Create PDF reports for images of your choice.</li> <li>Add headers, footers, and logos to reports.</li> <li>Report editor (report page preview and snap to grid).</li> <li>Sort function (by date, groups sorted by path, and groups sorted by date).</li> <li>Browse and purchase infrared cameras, software, and accessories in the webshop.</li> <li>Software localized to 21 languages.</li> <li>Support for MSX (Multi-Spectral Dynamic Imaging ) Images</li> <li>Support for Sketch Images on both IR and Visual with toggling ON/OFF feature.</li> <li>Support for Same FOV ( Field of View Match )</li> <li>Display of Compass Information in Edit and in Report.</li> <li>Display of GPS Information in Edit and in Report.</li> <li>Microsoft Windows 7 (32- and 64-bit) and Windows 8 (32- and 64-bit)</li> <li>Camera update (applies to FLIR Ex, Kxx, Exx and T6xx series only).</li> </ul>	
Download	
This software is a freeware. To download, click the following link:	
<a href="http://support.flir.com/tools">http://support.flir.com/tools</a>	
Release notes	
Version	5.2
New features in version 5.2	<ul style="list-style-type: none"> <li>Support for auto-adjusting a region.</li> <li>Support for zoom.</li> <li>Various bug fixes.</li> </ul>
New features in version 5.1	<ul style="list-style-type: none"> <li>Improved import performance.</li> <li>Added support for video recording settings for FLIR Kxx series.</li> <li>Added support for importing video files from FLIR Kxx series.</li> <li>Added support for FLIR C2 camera.</li> <li>Various bug fixes.</li> </ul>



**P/N: T198584**

© 2015, FLIR Systems, Inc.  
#T198584; r. 25122; en-US

Release notes	
New features in version 5.0	<ul style="list-style-type: none"> <li>Local object parameters for measurement tools.</li> <li>Save a report in-process with the ability to edit at a later time.</li> <li>Pull-down menus for text annotations.</li> <li>Variable playback speed for recordings.</li> <li>Show or hide min./max./avg. temperature, and hot/cold markers, for areas and lines.</li> <li>Smoother display for low-resolution images.</li> <li>UltraMax image enhancement.</li> <li>Dropping support for Windows XP.</li> <li>Various bug fixes.</li> </ul>
New features in version 4.1	<ul style="list-style-type: none"> <li>Previous/next in Edit mode.</li> <li>Clone in the Library.</li> <li>Extract visual photo from a multispectral image.</li> <li>Import *.mp4, *.seq, and *.csq files from the camera.</li> <li>Playback/edit *.seq and *.csq files.</li> <li>Scale enhancement for the FLIR GF3xx series.</li> <li>Auto resize of thumbnails during importing for the FLIR T6xx series.</li> <li>Grouping/ungrouping now added.</li> <li>Various bug fixes.</li> </ul>
New features in version 4.0	<ul style="list-style-type: none"> <li>Support for the new FLIR Ex and Exx series cameras.</li> <li>Interactive quick start guide when connecting a FLIR camera.</li> <li>Improved library view.</li> <li>Support for multispectral images.</li> <li>Support for auto-oriented images.</li> <li>Various bug fixes.</li> </ul>
New features in version 3.1	<ul style="list-style-type: none"> <li>Support for FLIR K series cameras.</li> <li>Interactive quick start guide when connecting a FLIR K series camera.</li> <li>Live image streaming from FLIR K series cameras.</li> <li>PC-side configuration of FLIR K series cameras.</li> <li>New report templates for DC images only added.</li> <li>Various bug fixes.</li> </ul>
New features in version 3.0	<ul style="list-style-type: none"> <li>Add folder to library.</li> <li>Support for isotherms and color alarms</li> <li>Image description for both IR and DC.</li> <li>Export functionality (*.avi, *.csv).</li> <li>Microsoft Windows 8 (32- and 64-bit)</li> <li>New web installer</li> <li>Various bug fixes.</li> </ul>
New features in version 2.2	<ul style="list-style-type: none"> <li>Camera tab: <ul style="list-style-type: none"> <li>Logging feature in Camera Tab</li> <li>Recording and playback of SEQ files.</li> </ul> </li> <li>Various bug fixes.</li> </ul>
New features in version 2.1	<ul style="list-style-type: none"> <li>New Text Comment Template Tab: <ul style="list-style-type: none"> <li>Create, Edit and Transfer templates to and from any FLIR Camera.</li> <li>Import and Export of Templates.</li> </ul> </li> <li>Support for MSX (Multi-Spectral Dynamic Imaging ) Images</li> <li>Support for Sketch Images on both IR and Visual with toggling ON/OFF feature.</li> <li>Support for Same FOV ( Field of View Match )</li> <li>Display of Compass Information in Edit and in Report.</li> <li>Display of GPS Information in Edit and in Report. <ul style="list-style-type: none"> <li>Direct Link to Google Maps for GPS Tagged images from Report.</li> </ul> </li> <li>Support for 3x5 and 6x5 A-series cameras</li> </ul>

**P/N: T198584**

© 2015, FLIR Systems, Inc.  
#T198584; r. 25122; en-US

Release notes	
New features in version 2.0	<ul style="list-style-type: none"> <li>Camera tab: <ul style="list-style-type: none"> <li>Camera connection with FLIR UVC cameras.</li> <li>Measurement data analysis.</li> <li>Plotting.</li> <li>Snapshot saving with text annotation and plot.</li> </ul> </li> <li>Performance improvement for large reports: can now create reports and imagesheets of up to 200 pages.</li> <li>Various bug fixes.</li> </ul>
New features in version 1.3	<ul style="list-style-type: none"> <li>Import from ix series cameras.</li> <li>Add and remove a form from a group.</li> <li>Text comments are now saved in the infrared image.</li> <li>The indexing engine can create groups from IR, DC, and text annotations when indexing the paths in the watch folder.</li> <li>Arrow tool in the report toolbar.</li> <li>Reorder pages.</li> <li>Text annotations can now be edited in the report.</li> <li>New report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR).</li> <li>New sample images.</li> </ul>
New features in version 1.2 SP1	<ul style="list-style-type: none"> <li>Various bug fixes.</li> </ul>
New features in version 1.2	<ul style="list-style-type: none"> <li>Search function: <ul style="list-style-type: none"> <li>Store the five latest search criterias.</li> <li>Search in all texts in images and text annotations.</li> </ul> </li> <li>Sort function: <ul style="list-style-type: none"> <li>By date.</li> <li>Groups sorted by by path.</li> <li>Groups sorted by date.</li> </ul> </li> <li>Report editor: <ul style="list-style-type: none"> <li>Report page preview.</li> <li>Snap to grid.</li> <li>Various bug fixes.</li> </ul> </li> </ul>
New features in version 1.1 SP1	<ul style="list-style-type: none"> <li>Extension to the camera update functionality.</li> <li>Various bug fixes</li> </ul>
New features in version 1.1	<ul style="list-style-type: none"> <li>Software localized to 21 languages.</li> <li>Camera update. (Exx, T6xx)</li> <li>Option to rotate an infrared image in the infrared editor.</li> </ul>

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Digital download, or</li> <li>CD-ROM</li> </ul>
Packaging, weight	0.106 kg (0.23 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005279
UPC-12	845188005481
Country of origin	Sweden

System requirements	
Operating system	<ul style="list-style-type: none"> <li>Windows XP, 32-bit</li> <li>Windows Vista, 32-bit</li> <li>Windows 7, 32-bit</li> <li>Windows 7, 64-bit</li> <li>Windows 8, 32-bit</li> <li>Windows 8, 64-bit</li> </ul>

**P/N: T198584**

© 2015, FLIR Systems, Inc.  
#T198584; r. 25122; en-US

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm

**P/N: T198584**

© 2015, FLIR Systems, Inc.  
#T198584; r. 25122; en-US

- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

**P/N: T198584**

© 2015, FLIR Systems, Inc.  
#T198584; r. 25122; en-US

- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72001-0101; FLIR C2

**P/N: T198583**

## Copyright

© 2015, FLIR Systems, Inc.

All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: T198583

Commit: 25121

Language: en-US

Modified: 2015-04-29 09:50

Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.

27700 SW Parkway Ave.

Wilsonville, OR 97070

USA

Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Compared to FLIR Tools, FLIR Tools+ has the following features:	
<ul style="list-style-type: none"> <li>• Radiometric Panorama incl. MSX</li> <li>• Radiometric IR Video Recording</li> <li>• Advanced Reporting</li> </ul>	
FLIR Tools/Tools+ is a software suite specifically designed to provide an easy way to update your camera and create inspection reports.	
FLIR Tools+ main features:	
<ul style="list-style-type: none"> <li>• Manual IR/Visual Image Grouping</li> <li>• Radiometric Panorama incl. MSX</li> <li>• Radiometric IR Video Recording</li> <li>• Advanced Reporting - Microsoft Office 2007 (32bit), and 2010 (32bit) support</li> <li>• Report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR).</li> <li>• Import images from your camera to your computer.</li> <li>• Apply filters when searching for images.</li> <li>• Search all text in images and text annotations.</li> <li>• Store the five latest search criteria's.</li> <li>• Lay out, move, and resize measurement tools on any infrared image.</li> <li>• Create PDF imagesheets of any images of your choice.</li> <li>• Add headers, footers, and logos to imagesheets.</li> <li>• Create PDF reports for images of your choice.</li> <li>• Add headers, footers, and logos to reports.</li> <li>• Report editor (report page preview and snap to grid).</li> <li>• Sort function (by date, groups sorted by path, and groups sorted by date).</li> <li>• Browse and purchase infrared cameras, software, and accessories in the webshop.</li> <li>• Software localized to 21 languages.</li> <li>• Support for MSX (Multi-Spectral Dynamic Imaging ) Images</li> <li>• Support for Sketch Images on both IR and Visual with toggling ON/OFF feature.</li> <li>• Support for Same FOV ( Field of View Match )</li> <li>• Display of Compass Information in Edit and in Report.</li> <li>• Display of GPS Information in Edit and in Report.</li> <li>• Microsoft Windows 7 (32- and 64-bit) and Windows 8 (32- and 64-bit)</li> <li>• Camera update (applies to FLIR Ex, Kxx, Exx and T6xx series only).</li> </ul>	
Download	
Download a 30-day evaluation version here:	
<a href="http://support.flir.com/toolsplus">http://support.flir.com/toolsplus</a>	
Release notes	
Version	5.2
New features in version 5.2	<ul style="list-style-type: none"> <li>• Support for auto-adjusting a region.</li> <li>• Support for zoom.</li> <li>• Express Microsoft Word reporting (*.docx).</li> <li>• Various bug fixes.</li> </ul>

**P/N: T198583**

© 2015, FLIR Systems, Inc.  
#T198583; r. 25121; en-US

Release notes	
New features in version 5.1	<ul style="list-style-type: none"> <li>Improved import performance.</li> <li>Added support for video recording settings for FLIR Kxx series.</li> <li>Added support for importing video files from FLIR Kxx series.</li> <li>Added support for FLIR C2 camera.</li> <li>Various bug fixes.</li> </ul>
New features in version 5.0	<ul style="list-style-type: none"> <li>Local object parameters for measurement tools.</li> <li>Save a report in-process with the ability to edit at a later time.</li> <li>Pull-down menus for text annotations.</li> <li>Variable playback speed for recordings.</li> <li>Show or hide min./max./avg. temperature, and hot/cold markers, for areas and lines.</li> <li>Smoother display for low-resolution images.</li> <li>UltraMax image enhancement.</li> <li>Dropping support for Windows XP.</li> <li>Various bug fixes.</li> </ul>
New features in version 4.1	<ul style="list-style-type: none"> <li>Previous/next in Edit mode.</li> <li>Clone in the Library.</li> <li>Extract visual photo from a multispectral image.</li> <li>Import *.mp4, *.seq, and *.csq files from the camera.</li> <li>Playback/edit *.seq and *.csq files.</li> <li>Scale enhancement for the FLIR GF3xx series.</li> <li>Auto resize of thumbnails during importing for the FLIR T6xx series.</li> <li>Grouping/ungrouping now added.</li> <li>Various bug fixes.</li> </ul>
New features in version 4.0	<ul style="list-style-type: none"> <li>Support for the new FLIR Ex and Exx series cameras.</li> <li>Interactive quick start guide when connecting a FLIR camera.</li> <li>Improved library view.</li> <li>Support for multispectral images.</li> <li>Support for auto-oriented images.</li> <li>Various bug fixes.</li> </ul>
New features in version 3.1	<ul style="list-style-type: none"> <li>Support for FLIR K series cameras.</li> <li>Interactive quick start guide when connecting a FLIR K series camera.</li> <li>Live image streaming from FLIR K series cameras.</li> <li>PC-side configuration of FLIR K series cameras.</li> <li>New report templates for DC images only added.</li> <li>Various bug fixes.</li> </ul>
New features in version 3.0	<ul style="list-style-type: none"> <li>Add folder to library.</li> <li>Support for isotherms and color alarms</li> <li>Image description for both IR and DC.</li> <li>Export functionality (*.avi, *.csv).</li> <li>Microsoft Windows 8 (32- and 64-bit)</li> <li>New web installer</li> <li>Radiometric panorama with MSX images.</li> <li>Advanced reports.</li> <li>Manual grouping/ungrouping of images.</li> <li>Various bug fixes.</li> </ul>
New features in version 2.2	<ul style="list-style-type: none"> <li>Camera tab: <ul style="list-style-type: none"> <li>Logging feature in Camera Tab</li> <li>Recording and playback of SEQ files.</li> </ul> </li> <li>Various bug fixes.</li> </ul>
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>FLIR Tools+ scratchcard</li> </ul>
Packaging, weight	0.059 kg (0.13 lb.)

**P/N: T198583**

© 2015, FLIR Systems, Inc.  
#T198583; r. 25121; en-US

Shipping information	
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	73325585378 4743254001442 (Estonia plant)
UPC-12	845188005580
Country of origin	Sweden
System requirements	
Operating system	<ul style="list-style-type: none"> <li>Windows XP, 32-bit</li> <li>Windows Vista, 32-bit</li> <li>Windows 7, 32-bit</li> <li>Windows 7, 64-bit</li> <li>Windows 8, 32-bit</li> <li>Windows 8, 64-bit</li> </ul>
Software requirements	<ul style="list-style-type: none"> <li>Office 2007, 32-bit</li> <li>Office 2010, 32-bit</li> <li>Office 2013, 32-bit</li> </ul>

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)



**P/N: T198583**

© 2015, FLIR Systems, Inc.  
#T198583; r. 25121; en-US

- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens

**P/N: T198583**

© 2015, FLIR Systems, Inc.  
#T198583; r. 25121; en-US

- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 63901-0101; FLIR E4
- 63905-0501; FLIR E5
- 63902-0202; FLIR E6
- 63903-0303; FLIR E8

## P/N: DSW-10000

### Copyright

© 2015, FLIR Systems, Inc.

All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: DSW-10000

Commit: 24597

Language: en-US

Modified: 2015-04-09 13:38

Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.

27700 SW Parkway Ave.

Wilsonville, OR 97070

USA

Telephone: +1-503-498-3547

### Website

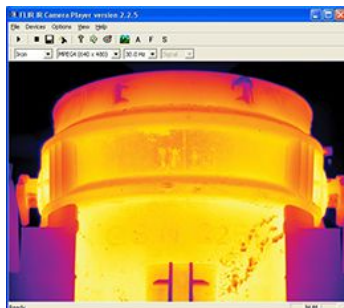
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

FLIR IR Camera Player is a PC-based remote control and viewer that you can use with cameras from FLIR Systems.

You can perform one or more of the following with FLIR IR Camera Player:

- Record a video stream from the camera.
- Save a frame from the video stream as a snapshot image (\*.bmp).
- Autofocus, focus far, and focus near.
- Autoadjust the camera image.
- Freeze the camera image.
- Save a camera image in the camera.
- Change Color palette.
- Add an image description and a text comment to an image.

You connect a camera in one of the following ways:

- Ethernet
- FireWire
- USB

### Download

This software is a freeware. To download, click the following link:

<http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=89>

### Release notes

Version	2.3.3
New features	<p>Main improvements in version 2.3.3:</p> <ul style="list-style-type: none"> <li>• Added latest device drivers (1.9.1.0).</li> <li>• Various bugfixes</li> </ul> <p>Main improvements in version 2.2.7:</p> <ul style="list-style-type: none"> <li>• Added support for FLIR Ax5 series.</li> </ul>

### System requirements

Operating system	<ul style="list-style-type: none"> <li>• Windows XP, 32-bit</li> <li>• Windows Vista, 32-bit/64-bit</li> <li>• Windows 7, 32-bit/64-bit</li> </ul>
------------------	--

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)

**P/N: DSW-10000**

© 2015, FLIR Systems, Inc.  
#DSW-10000; r. 24597; en-US

- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc

**P/N: DSW-10000**

© 2015, FLIR Systems, Inc.  
#DSW-10000; r. 24597; en-US

- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)



---

**P/N: DSW-10000**

© 2015, FLIR Systems, Inc.  
#DSW-10000; r. 24597; en-US

- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: APP-10002

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: APP-10002  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

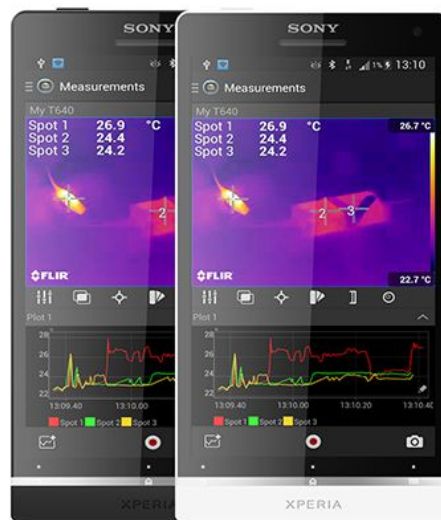
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

FLIR Tools Mobile is an intuitive Android app for analyzing, managing, and distributing infrared images.

#### Key features:

- Remote control
- MSX
- Images with sketch on DC and IR
- Images with field of view follow
- Editable text comments
- Emissivity table
- Import images from your Wi-Fi-enabled camera.
- Connect and stream infrared images from the camera.
- Connect and stream measurement data from FLIR Test & Measurement meters
- Lay out and move measurement tools on the image.
- Read out temperature measurements.
- Create and configure temporal plots based on results of measurement tools on the infrared image.
- Log measurement data and export it as a \*.csv file.
- Save a measurement scenario as a data snapshot.
- Zoom in on images.
- On the Android device, remotely take snapshots when a camera is connected.
- On the camera, take snapshots that will automatically be saved on the Android device.
- Delete images on the Android device.
- Display an image's GPS coordinates on Google Maps.
- Create and e-mail reports.
- Save images in the Android device photo library.
- Send images to FTP sites and other file-sharing services (Dropbox, Box.net, etc.).
- Display image information, e.g., object parameters, text comments, and file details.
- Play back voice comments.
- Change the level and span.
- Change general settings in the app.
- Change the palette.

### Download

The application can be downloaded from Android Market or Amazon Marketplace, see the link below.

<https://market.android.com/details?id=com.flir.viewer>

**P/N: APP-10002**

© 2015, FLIR Systems, Inc.  
#APP-10002; r. 24597; en-US

Release notes	
Version	3.4.0
New features	<p>Main improvements in version 3.4.0:</p> <ul style="list-style-type: none"> <li>• Support for *.csq files.</li> <li>• Various bug fixes.</li> </ul> <p>Main improvements in version 3.2.0:</p> <ul style="list-style-type: none"> <li>• Receive data logs from FLIR DM93.</li> <li>• Save or export data logs in new *.csv format.</li> <li>• Various bug fixes.</li> </ul> <p>Main improvements in version 3.1.0:</p> <ul style="list-style-type: none"> <li>• Added variable level of MSX alpha</li> <li>• Added Fusion Blending mode for images with possibility to adjust level</li> <li>• Stability fixes</li> <li>• Improved memory management</li> <li>• Modified internal handling of measurement results and displaying them.</li> </ul>
System requirements	
Operating system	<ul style="list-style-type: none"> <li>• Android 2.3 and later</li> </ul>

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)



**P/N: APP-10002**

© 2015, FLIR Systems, Inc.  
#APP-10002; r. 24597; en-US

- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: APP-10003

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: APP-10003  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

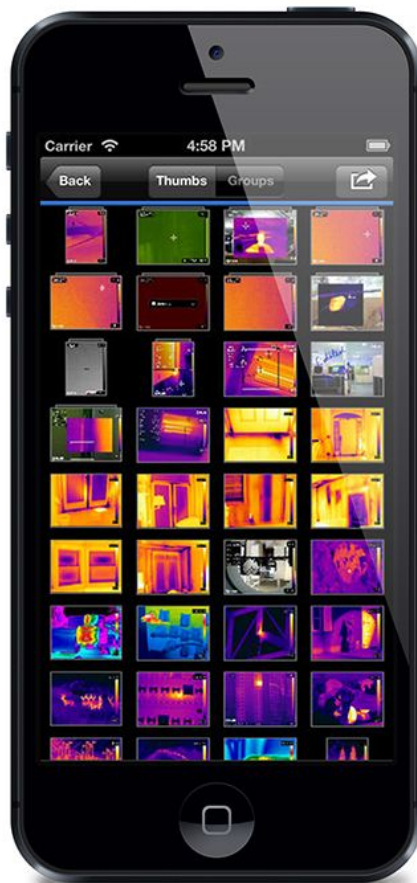
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

FLIR Tools Mobile lets professional thermographers use an iPad, iPhone, or iPod touch to see and capture live, streaming infrared video and stills from select FLIR cameras.

With FLIR Tools Mobile the camera can be stationed in one area and operated wirelessly from another – highly useful for IR inspections of energized equipment or performing IR surveys in hard-to-reach locations and harsh working environments. Streaming video and remote access also gives decision makers and others on your team a valuable opportunity to observe and collaborate in the thermal imaging process.

Using FLIR Tools Mobile, you can do one or more of the following:

- Import images from your infrared camera
- Lay out and move measurement tools on the image
- Read out temperature measurements
- Zoom in on images
- On the iPhone/iPad, remotely take snapshots when a camera is connected
- On the camera, take snapshots that will automatically be saved in the iPhone/iPad
- Delete any images on the iPhone/iPad
- Display an image's GPS coordinates on Google Maps
- Create and e-mail imagesheets
- Create and e-mail reports
- Print imagesheets and reports to any AirPrint-enabled printer
- Save images to iPhone/iPad photo library
- Send images to FTP sites and other file sharing services (Dropbox, Box.net, etc.)
- Display image information, such as object parameters, text comments, file information, etc.
- Play-back voice comments
- Change level and span
- Change general settings in the app
- Change palette

**P/N: APP-10003**

© 2015, FLIR Systems, Inc.  
#APP-10003; r. 24597; en-US

General description	
FLIR Tools Mobile lets you take control of the following features on selected cameras:	
<ul style="list-style-type: none"> <li>• Remote control of your FLIR camera.</li> <li>• Support for MSX (Multi-Spectral Dynamic Imaging) images.</li> <li>• Support for sketch images in both IR and visual with on/off toggling.</li> <li>• Support for same FOV ("Field of View Match").</li> <li>• Editable text comments.</li> <li>• Auto and manual focus</li> <li>• Level and span</li> <li>• Color palettes</li> <li>• Temperature measurement analytics</li> <li>• Spot</li> <li>• Area box</li> <li>• Circle</li> <li>• Line</li> <li>• Parameter settings</li> <li>• Emissivity</li> <li>• Reflected temperature</li> <li>• Relative humidity</li> <li>• Atmospheric temperature</li> <li>• IR and visible light image blending</li> <li>• Picture-in-picture</li> <li>• Thermal fusion</li> <li>• Image storage</li> <li>• MPEG 4 video</li> <li>• Radiometric JPEG stills</li> </ul>	
Download	
The application can be downloaded from App Store, see the link below.	
<a href="http://itunes.apple.com/app/flir-tools/id511247887?mt=8">http://itunes.apple.com/app/flir-tools/id511247887?mt=8</a>	
Release notes	
Version	1.5.0
New features	<p>Main improvements in version 1.5.0:</p> <ul style="list-style-type: none"> <li>• Updated for iOS7.</li> <li>• Improved Library.</li> </ul> <p>Main improvements in version 1.3.2:</p> <ul style="list-style-type: none"> <li>• Added remote viewer mode for T4xx and Exx series.</li> <li>• Improved support for anonymous FTP server.</li> <li>• Improved image import from photo gallery.</li> </ul> <p>Main improvements in version 1.3:</p> <ul style="list-style-type: none"> <li>• Support for fusion images.</li> <li>• Marking fusion images with the stacked icon in the library browser.</li> <li>• Switching image modes while editing fusion images.</li> <li>• Switch between fusion IR/DC and grouped images during preview.</li> <li>• Support for landscape and portrait images.</li> <li>• Image parameters can be modified only in edit mode.</li> <li>• Support for FLIR Exx-series cameras.</li> </ul>
System requirements	
Operating system	<ul style="list-style-type: none"> <li>• iOS 4.0 or later</li> </ul>
Hardware requirements	<ul style="list-style-type: none"> <li>• iPhone</li> <li>• iPad</li> <li>• iPod</li> </ul>

**Compatible with the following products**

- N/A

**P/N: T198696**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: T198696  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

FLIR ResearchIR Max 4.0 is aimed at R&D and science professionals who use thermal imaging cameras with a cooled or uncooled detectors. FLIR ResearchIR Max makes the most of a thermal imaging camera, and allows high-speed recording and advanced thermal pattern analysis. FLIR ResearchIR Max is the perfect tool for industrial R&D.

### Main features:

- Pre/post-recording.
- Mathematical processing toolbox.
- Image filtering toolbox.
- Radiometric digital detail enhancement (DDE) improves dramatically the understanding of the thermal image, while maintaining radiometric measurement accuracy.
- View, record and store images at high speed.
- Post-processing of fast thermal events.
- Generate time-temperature plots from live images or recorded sequences.
- Advanced start/stop recording conditions.
- Unlimited number of analysis functions (spot, line, area).
- File organizer.
- Zoom and pan allows a closer look.
- Multiple dockable objects for plots and statistics.
- Export images and results to bitmap, video, Excel, MATLAB or CSV formats
- Local scale gain control on measurement - automatically adjusts the contrast in a specific part of the image.

FLIR ResearchIR Max 4 in combination with a FLIR thermal imaging camera is the perfect solution for any R&D or scientific application. It will allow researchers in all fields to make the smallest of temperature differences visible and to thoroughly analyze the thermal process in real-time.

## Download

Download your copy of FLIR ResearchIR Max 4 here (hardware security device required to run the software):

<http://support.flir.com/rir4>

## Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• FLIR ResearchIR Max 4 download card.</li> <li>• Hardware security device.</li> </ul>
Packaging, weight	0.066 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558007266
UPC-12	845188007638
Country of origin	Sweden

## Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)

**P/N: T198696**

© 2015, FLIR Systems, Inc.  
#T198696; r. 24597; en-US

- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 42901-1001; FLIR A305sc
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens

**P/N: T198696**

© 2015, FLIR Systems, Inc.  
#T198696; r. 24597; en-US

- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

**P/N: T198697**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: T198697  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

FLIR ResearchIR Max + HSDR 4 contains all the features of FLIR ResearchIR Max 4, plus support for FLIR High Speed Data Recorder (HSDR) products.

### Main features:

- Pre/post-recording.
- Mathematical processing toolbox.
- Image filtering toolbox.
- Radiometric digital detail enhancement (DDE) improves dramatically the understanding of the thermal image, while maintaining radiometric measurement accuracy.
- View, record and store images at high speed.
- Post-processing of fast thermal events.
- Generate time-temperature plots from live images or recorded sequences.
- Advanced start/stop recording conditions.
- Unlimited number of analysis functions (spot, line, area).
- File organizer.
- Zoom and pan allows a closer look.
- Multiple dockable objects for plots and statistics.
- Export images and results to bitmap, video, Excel, MATLAB or CSV formats
- Local scale gain control on measurement - automatically adjusts the contrast in a specific part of the image.

FLIR ResearchIR Max + HSDR 4 in combination with a FLIR thermal imaging camera is the perfect solution for any R&D or scientific application. It will allow researchers in all fields to make the smallest of temperature differences visible and to thoroughly analyze the thermal process in real-time.

## Download

Download your copy of FLIR ResearchIR Max + HSDR 4 here (hardware security device required to run the software):

<http://support.flir.com/rir4>

## Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• FLIR ResearchIR Max + HSDR 4 download card.</li> <li>• Hardware security device.</li> </ul>
Packaging, weight	0.068 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558007280
UPC-12	845188007652
Country of origin	Sweden

## Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)

**P/N: T198697**

© 2015, FLIR Systems, Inc.  
#T198697; r. 24597; en-US

- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 42901-1001; FLIR A305sc
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens



**P/N: T198697**

© 2015, FLIR Systems, Inc.  
#T198697; r. 24597; en-US

- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: T199815

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T199815  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The Extended Warranty Package covers parts and labour for your IR camera, consumables not included.

FLIR Systems warrants its products to be free from defects caused by faulty material or poor workmanship, for a period specified above. NO PRODUCT IS WARRANTED TO BE MERCHANTABLE OR FIT FOR ANY PARTICULAR USE OR APPLICATION. The warranty is void if the buyer damages the item due to misuse, abuse, modification, processing, or integration with other items. FLIR Systems' maximum liability under this warranty is limited to the obligation to replace or, at its sole option, to credit Buyer's account up to the purchase price.

### Download

Contact info can be found at:

<http://support.flir.com>

### Compatible with the following products

- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)

## P/N: T199802

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T199802  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

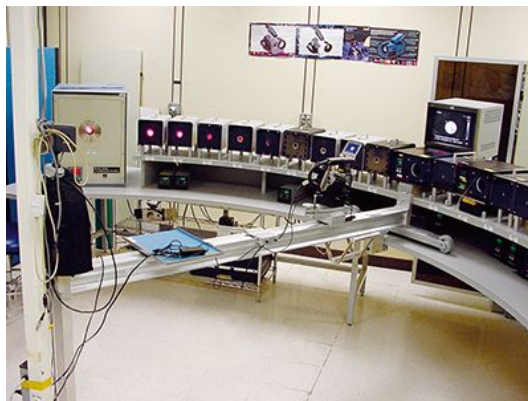
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

General Maintenance package offers a complete 14 points inspection and calibration service (for one lens combination). Shipping cost not included.

#### 14-point inspection program:

- Perform a complete operational check.
- Fusion calibration and laser alignment, when applicable.
- Verify all internal cable and PCB connections.
- Clean the viewfinder and check the optics.
- Upgrade the internal camera software to the latest revisions.
- Perform minor repairs.
- Verify and/or re-equalize as needed each temperature range for image uniformity.
- Verify standard lens calibration (optional: other or specially engineered lenses).
- Verify ambient temperature compensation as needed.
- Recalibration to ensure factory specifications are met.
- Calibrate temperature ranges up to +1500°C, when applicable.
- Perform a quality-approved acceptance test procedure.
- Provide a calibration label with the next due date.
- Provide a calibration certificate (optional: extended calibration certificate with measured values).

### Download

Contact info can be found at:

<http://support.flir.com>

### Compatible with the following products

- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)

## P/N: ITC-FEE-0120

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-FEE-0120  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Certification DIN EN ISO 9712 TT Category 1	
Course information	
Available languages	DACH only
Course details	
Duration	1 day

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)

**P/N: ITC-FEE-0120**

© 2015, FLIR Systems, Inc.

#ITC-FEE-0120; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-CER-6101

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-6101  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
DIN EN ISO 9712 TT Category 1 Certification course, excl. Certification, 1 pers.	
Course information	
Available languages	DACH only
Course details	
Duration	5 days

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)

---

**P/N: ITC-CER-6101**

© 2015, FLIR Systems, Inc.

#ITC-CER-6101; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5



## P/N: ITC-CER-6109

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-6109  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
DIN EN ISO 9712 TT Category 1 Certification course, excl. Certification, group up to 10 pers.	
Course information	
Available languages	DACH only
Course details	
Duration	5 days

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)



---

**P/N: ITC-CER-6109**

© 2015, FLIR Systems, Inc.

#ITC-CER-6109; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-ADV-3021

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3021  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This interdisciplinary course bridges the gap between IR thermography, background science and application theory. Being an overview course it deals with three main application fields of thermography: electrical, industrial, and building. For every application the participant will learn about the specific theory, typical faults, and how to detect them with a thermography camera. The student will also learn about the basics of condition monitoring, and maintenance.

Examples and case studies from the real world illustrate the course content and are discussed with the participants. Participants will be trained in discovering and identifying typical faults by typical thermal patterns.

### Content

- Introduction
- Electrical Applications (current, voltage, resistance, electrical systems, Ohm's law, some important properties of materials, typical faults, surveying methodology and criteria, safety, voltage limits)
- Industrial Applications (bearings, pumps, gears, belts, misalignment and couplings, gaskets, seals, rings, glands, steam traps, furnaces)
- Building Applications (definition of the building envelope, steady state thermal transfer in a building envelope, transient thermal transfer in a building envelope, applications)

### Course information

Available languages	
English	
Target group	
<ul style="list-style-type: none"> <li>• Professional thermographers holding a Level 1 or a Level 2 certificate and</li> <li>• with interest in increasing their knowledge of different thermographic applications, and their limitations or</li> <li>• with a special interest in condition monitoring of machines</li> </ul>	
Typical student	
<ul style="list-style-type: none"> <li>• Knows how to operate the camera</li> <li>• Knows how to report</li> <li>• Works in the industry with e.g. maintenance and condition monitoring or is a consultant</li> </ul>	
Pre-requisites	
<ul style="list-style-type: none"> <li>• Valid Level 1 thermography certificate</li> <li>• IR related education and experience</li> </ul>	

**P/N: ITC-ADV-3021**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3021; r. 23306; en-US

Course details	
Duration	3 days (24 hours)
Structure	The course is divided into the three parts: Electrical Applications, Industrial Applications, and Building Applications. Theory sessions and case studies including interactive discussions alternate.
Exam	A final exam (30 multiple choice questions) will be written on the 3d day in the afternoon. In connection, the correct answers will be discussed by the instructor and the participants.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Attendance of 1 person</li> <li>• Might include more, such as lunch, depending on location and organizing entity</li> </ul>
Course organization	
ITC	The Advanced General Thermography Course is offered worldwide by ITC as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary.
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Advanced General Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)

**P/N: ITC-ADV-3021**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3021; r. 23306; en-US

- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC

---

**P/N: ITC-ADV-3021**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3021; r. 23306; en-US

- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-ADV-3029

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3029  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This interdisciplinary course bridges the gap between IR thermography, background science and application theory. Being an overview course it deals with three main application fields of thermography: electrical, industrial, and building. For every application the participant will learn about the specific theory, typical faults, and how to detect them with a thermography camera. The student will also learn about the basics of condition monitoring, and maintenance.

Examples and case studies from the real world illustrate the course content and are discussed with the participants. Participants will be trained in discovering and identifying typical faults by typical thermal patterns.

### Content

- Introduction
- Electrical Applications (current, voltage, resistance, electrical systems, Ohm's law, some important properties of materials, typical faults, surveying methodology and criteria, safety, voltage limits)
- Industrial Applications (bearings, pumps, gears, belts, misalignment and couplings, gaskets, seals, rings, glands, steam traps, furnaces)
- Building Applications (definition of the building envelope, steady state thermal transfer in a building envelope, transient thermal transfer in a building envelope, applications)

### Course information

Available languages	
English	
Target group	
<ul style="list-style-type: none"> <li>• Professional thermographers holding a Level 1 or a Level 2 certificate and</li> <li>• with interest in increasing their knowledge of different thermographic applications, and their limitations or</li> <li>• with a special interest in condition monitoring of machines</li> </ul>	
Typical student	
<ul style="list-style-type: none"> <li>• Knows how to operate the camera</li> <li>• Knows how to report</li> <li>• Works in the industry with e.g. maintenance and condition monitoring or is a consultant</li> </ul>	
Pre-requisites	
<ul style="list-style-type: none"> <li>• Valid Level 1 thermography certificate</li> <li>• IR related education and experience</li> </ul>	

**P/N: ITC-ADV-3029**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3029; r. 23306; en-US

Course details	
Duration	3 days (24 hours)
Structure	The course is divided into the three parts: Electrical Applications, Industrial Applications, and Building Applications. Theory sessions and case studies including interactive discussions alternate.
Exam	A final exam (30 multiple choice questions) will be written on the 3d day in the afternoon. In connection, the correct answers will be discussed by the instructor and the participants.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Attendance of a group up to 10 persons</li> <li>• Might include more, such as lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	The Advanced General Thermography Course is offered worldwide by ITC as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary.
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Advanced General Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)

**P/N: ITC-ADV-3029**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3029; r. 23306; en-US

- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL



---

**P/N: ITC-ADV-3029**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3029; r. 23306; en-US

- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-CON-1001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CON-1001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

ITC conference fee

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-CON-1001**

© 2015, FLIR Systems, Inc.

#ITC-CON-1001; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-CON-1001**

© 2015, FLIR Systems, Inc.

#ITC-CON-1001; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-EXP-0511

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-0511  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
ITC Getting Started with Thermography - attendance, 1 pers.	
Course information	
Available languages	DE, FR, IT, NL, SE
Course details	
Duration	4 hours

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)



---

**P/N: ITC-EXP-0511**

© 2015, FLIR Systems, Inc.

#ITC-EXP-0511; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-EXP-0521

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-0521  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
ITC Getting Started with Thermography (evening or weekend) - attendance, 1 pers.	
Course information	
Available languages	DE, FR, IT, NL, SE
Course details	
Duration	4 hours

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)

---

**P/N: ITC-EXP-0521**

© 2015, FLIR Systems, Inc.

#ITC-EXP-0521; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5



## P/N: ITC-EXP-1021

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1021  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

An on-site training can be customized upon your needs. The participants will learn about IR thermography, inspections, measurements, applications, and reporting corresponding to the level needed for performing measurements and inspection in their working environment. The trainer will give useful advice on how to best implement IR thermography in your business.

This partnumber is reserved for adding additional students to an on site class.

### Content

- An on-site course can be any course, from a 1-day introduction to general thermography, over a customized application course to a complete certification course.

### Labs

- Portable classroom labs
- Field training on the site in agreement with the customer

### Course information

Available languages	English, Dutch, German, French, Italian, Spanish, Swedish, other languages upon request
Target group	<ul style="list-style-type: none"> <li>• Employees of a company or certain departments who would like to minimize travel costs and receive the training directly on their daily working site.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>

### Course details

Duration	Customized or according to the kind of course the in-house training is equivalent to.
Structure	Theory, camera handling, demos, practical labs and field training alternate.

**P/N: ITC-EXP-1021**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1021; r. 23306; en-US

Course details	
Exam	Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> </ul>
Course organization	
ITC	ITC In-house courses are offered worldwide by ITC and partners as listed. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	ITC In-house courses are lectured by ITC qualified instructors with experience in the relevant fields of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm

**P/N: ITC-EXP-1021**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1021; r. 23306; en-US

- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°

**P/N: ITC-EXP-1021**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1021; r. 23306; en-US

- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-1029

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1029  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
An on-site training can be customized upon your needs. The participants will learn about IR thermography, inspections, measurements, applications, and reporting corresponding to the level needed for performing measurements and inspection in their working environment. The trainer will give useful advice on how to best implement IR thermography in your business.	
Content	
<ul style="list-style-type: none"> <li>An on-site course can be any course, from a 1-day introduction to general thermography, over a customized application course to a complete certification course.</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Portable classroom labs</li> <li>Field training on the site in agreement with the customer</li> </ul>	
Course information	
Available languages	English, Dutch, German, French, Italian, Spanish, Swedish, other languages upon request
Target group	<ul style="list-style-type: none"> <li>Employees of a company or certain departments who would like to minimize travel costs and receive the training directly on their daily working site.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>
Course details	
Duration	Customized or according to the kind of course the in-house training is equivalent to.
Structure	Theory, camera handling, demos, practical labs and field training alternate.
Exam	Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.

**P/N: ITC-EXP-1029**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1029; r. 23306; en-US

Course details	
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by qualified ITC instructor</li> <li>• Training material in printed format</li> <li>• Diploma of attendance</li> <li>• Attendance of a group up to 10 persons</li> </ul>
Note	Course fee does not include cost for instructor's travelling or lodging. When organized at the customers' site, the customer is responsible for providing a suitable classroom and preferably also refreshments/lunch.
Course organization	
ITC	ITC In-house courses are offered worldwide by ITC and partners as listed. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	ITC In-house courses are lectured by ITC qualified instructors with experience in the relevant fields of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)

**P/N: ITC-EXP-1029**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1029; r. 23306; en-US

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL

**P/N: ITC-EXP-1029**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1029; r. 23306; en-US

- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display



## P/N: ITC-CER-5105

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5105  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 1 certified thermographer. The participant will learn about the basics of infrared, how to operate the camera under different conditions and for various purposes, how to do an appropriate judgement of the measurement situation in the field and how to identify potential error sources. After the class, the participant will be able to do IR inspections following written guidelines and to report the result of this inspection.

This partnumber is reserved for adding additional students to a level 1 on site class.

### Content

- Introduction to Thermography
- Camera Operation
- Basic physics of heat
- Basic physics of infrared
- Thermal pattern recognition and IR applications
- IR temperature measurement techniques
- Qualitative and quantitative thermography
- Inspection routines and reporting

### Student presentations

During the seminar, students will generate a small case study based on the lab exercises to be presented to the class.

### Labs

- Camera handling
- Level and Span
- Conduction pattern
- Forced convection
- Direct and indirect thermal measurement
- Thermal capacity
- Steady state and transient heat flow
- Evaporation and condensation
- Electrical application
- Emissivity and Reflected apparent temperature
- Spatial resolution
- Location and temperature measurement of a hot/cold spot
- Image transfer to the computer

**P/N: ITC-CER-5105**

© 2015, FLIR Systems, Inc.

#ITC-CER-5105; r. 23306; en-US

Course information	
Available languages	Chinese, Danish, Dutch, English, Finish, French, German, Greek, Hebrew, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (bra.), Romanian, Russian, Serbo-Croatian, Spanish, Swedish, Thai
Target group	<ul style="list-style-type: none"> <li>• Practical user</li> <li>• This course is designed for beginners in thermography with some experience in camera handling and limited IR knowledge, who want to take their first step to become a professional thermographer and want to qualify as a Level 1 certified thermographer.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>• having already some basic experience with IR thermography,</li> <li>• knowing the basic functions of the camera,</li> <li>• who wants to become a certified thermographer in order to gain a competitive advantage or who needs the certifications because of legal reasons or company internal regulations.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Be familiar with the basic operation of an infrared camera</li> <li>• Have the recommended experience within thermography according to relevant standards</li> </ul>

Course details	
Duration	35 – 40 hours
Structure	Theory and camera practice (hands-on) alternate every day, additional labs and software exercises at some days.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>• Attendance of 1 person</li> <li>• Might include more, such as lunch, depending on location and organizing entity</li> </ul>
Note	Only for non-EURO, non-SEK, non NOK, non- £, -non CHF countries

Course organization	
ITC	The Level 1 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)

**P/N: ITC-CER-5105**

© 2015, FLIR Systems, Inc.

#ITC-CER-5105; r. 23306; en-US

- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc

**P/N: ITC-CER-5105**

© 2015, FLIR Systems, Inc.

#ITC-CER-5105; r. 23306; en-US

- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-CER-5101

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5101  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 1 certified thermographer. The participant will learn about the basics of infrared, how to operate the camera under different conditions and for various purposes, how to do an appropriate judgement of the measurement situation in the field and how to identify potential error sources. After the class, the participant will be able to do IR inspections following written guidelines and to report the result of this inspection.

### Content

- Introduction to Thermography
- Camera Operation
- Basic physics of heat
- Basic physics of infrared
- Thermal pattern recognition and IR applications
- IR temperature measurement techniques
- Qualitative and quantitative thermography
- Inspection routines and reporting

### Student presentations

During the seminar, students will generate a small case study based on the lab exercises to be presented to the class.

### Labs

- Camera handling
- Level and Span
- Conduction pattern
- Forced convection
- Direct and indirect thermal measurement
- Thermal capacity
- Steady state and transient heat flow
- Evaporation and condensation
- Electrical application
- Emissivity and Reflected apparent temperature
- Spatial resolution
- Location and temperature measurement of a hot/cold spot
- Image transfer to the computer

**P/N: ITC-CER-5101**

© 2015, FLIR Systems, Inc.

#ITC-CER-5101; r. 23306; en-US

Course information	
Available languages	Chinese, Danish, Dutch, English, Finish, French, German, Greek, Hebrew, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (bra.), Romanian, Russian, Serbo-Croatian, Spanish, Swedish, Thai
Target group	<ul style="list-style-type: none"> <li>• Practical user</li> <li>• This course is designed for beginners in thermography with some experience in camera handling and limited IR knowledge, who want to take their first step to become a professional thermographer and want to qualify as a Level 1 certified thermographer.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>• having already some basic experience with IR thermography,</li> <li>• knowing the basic functions of the camera,</li> <li>• who wants to become a certified thermographer in order to gain a competitive advantage or who needs the certifications because of legal reasons or company internal regulations.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Be familiar with the basic operation of an infrared camera</li> <li>• Have the recommended experience within thermography according to relevant standards</li> </ul>

Course details	
Duration	35 – 40 hours
Structure	Theory and camera practice (hands-on) alternate every day, additional labs and software exercises at some days.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>• Attendance of 1 person</li> <li>• Might include more, such as lunch, depending on location and organizing entity</li> </ul>

Course organization	
ITC	The Level 1 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)

**P/N: ITC-CER-5101**

© 2015, FLIR Systems, Inc.

#ITC-CER-5101; r. 23306; en-US

- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)

**P/N: ITC-CER-5101**

© 2015, FLIR Systems, Inc.

#ITC-CER-5101; r. 23306; en-US

- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display



## P/N: ITC-CER-5109

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5109  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 1 certified thermographer. The participant will learn about the basics of infrared, how to operate the camera under different conditions and for various purposes, how to do an appropriate judgement of the measurement situation in the field and how to identify potential error sources. After the class, the participant will be able to do IR inspections following written guidelines and to report the result of this inspection.

### Content

- Introduction to Thermography
- Camera Operation
- Basic physics of heat
- Basic physics of infrared
- Thermal pattern recognition and IR applications
- IR temperature measurement techniques
- Qualitative and quantitative thermography
- Inspection routines and reporting

### Student presentations

During the seminar, students will generate a small case study based on the lab exercises to be presented to the class.

### Labs

- Camera handling
- Level and Span
- Conduction pattern
- Forced convection
- Direct and indirect thermal measurement
- Thermal capacity
- Steady state and transient heat flow
- Evaporation and condensation
- Electrical application
- Emissivity and Reflected apparent temperature
- Spatial resolution
- Location and temperature measurement of a hot/cold spot
- Image transfer to the computer

**P/N: ITC-CER-5109**

© 2015, FLIR Systems, Inc.

#ITC-CER-5109; r. 23306; en-US

Course information	
Available languages	Chinese, Danish, Dutch, English, Finish, French, German, Greek, Hebrew, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (bra.), Romanian, Russian, Serbo-Croatian, Spanish, Swedish, Thai
Target group	<ul style="list-style-type: none"> <li>• Practical user</li> <li>• This course is designed for beginners in thermography with some experience in camera handling and limited IR knowledge, who want to take their first step to become a professional thermographer and want to qualify as a Level 1 certified thermographer.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>• having already some basic experience with IR thermography,</li> <li>• knowing the basic functions of the camera,</li> <li>• who wants to become a certified thermographer in order to gain a competitive advantage or who needs the certifications because of legal reasons or company internal regulations.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Be familiar with the basic operation of an infrared camera</li> <li>• Have the recommended experience within thermography according to relevant standards</li> </ul>

Course details	
Duration	35 – 40 hours
Structure	Theory and camera practice (hands-on) alternate every day, additional labs and software exercises at some days.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>• Attendance of a group up to 10 persons</li> <li>• Might include more, such as lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>

Course organization	
ITC	The Level 1 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)

**P/N: ITC-CER-5109**

© 2015, FLIR Systems, Inc.

#ITC-CER-5109; r. 23306; en-US

- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310

**P/N: ITC-CER-5109**

© 2015, FLIR Systems, Inc.

#ITC-CER-5109; r. 23306; en-US

- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-CER-5205

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5205  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 2 certified thermographer. The participant will learn about topics in infrared thermography to increase the knowledge about infrared physics, heat science, infrared measurement equipment and its application. As a Level 2 thermographer the participant shall provide guidance to category 1 personnel in the areas of equipment selection, techniques, limitations, data analysis, corrective actions and reporting.

This partnumber is reserved for adding additional students to a level 2 on site class.

### Content

- Thermal science
- Heat transfer
- Temperature measurement
- Infrared science
- IR equipment and applications

### Student presentations

During the seminar, students shall present a prepared case study to the class. The maximum duration (excl. discussion) should be 7 minutes and the maximum number of 7 slides should not be exceeded.

### Labs (Note: Labs marked "(M)" are mandatory)

- Newton's law (class lab) (M)
- Advanced emissivity measurement (M)
- Variation of emissivity with the angle (M)
- Transient thermal transfer
- Indirect power measurement (M)
- IR-window transmission (M)
- Slit Response Function
- Hole Response Function (M)
- Parallel circuits

### Course information

Available languages	Dutch, English, German, French, Italian, Portuguese (bra.), Spanish, Swedish
Target group	<ul style="list-style-type: none"> <li>• Professional user</li> <li>• This course is designed for thermographers holding a Level 1 certificate, who want to increase their knowledge about IR thermography and who want to qualify as a Level 2 certified thermographer.</li> </ul>

**P/N: ITC-CER-5205**

© 2015, FLIR Systems, Inc.

#ITC-CER-5205; r. 23306; en-US

Course information	
Typical student	<ul style="list-style-type: none"> <li>A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>having several months of professional experience within thermography,</li> <li>versed in camera operation and reporting,</li> <li>holding a Level 1 certificate,</li> <li>who needs the Level 2 Certification for guidance and supervision of other thermographers or is interested in deeper understanding of IR thermography.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Valid Level 1 thermography certificate,</li> <li>Recommended experience within thermography according to relevant standards,</li> <li>Prepared case study to be presented at the Level 2 course and submitted towards qualification at course closing.</li> </ul>

Course details	
Duration	40 hours
Structure	Theory, camera practice (hands-on), and prepared case studies alternate every day.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>Attendance of 1 person</li> <li>Might include more, such as lunch, depending on location and organizing entity.</li> </ul>
Note	Only for non-EURO, non-SEK, non NOK, non- £, -non CHF countries

Course organization	
ITC	The Level 2 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in T560393 Courses offered by ITC partners. Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)

**P/N: ITC-CER-5205**

© 2015, FLIR Systems, Inc.

#ITC-CER-5205; r. 23306; en-US

- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°

**P/N: ITC-CER-5205**

© 2015, FLIR Systems, Inc.

#ITC-CER-5205; r. 23306; en-US

- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°



## P/N: ITC-CER-5201

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5201  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 2 certified thermographer. The participant will learn about topics in infrared thermography to increase the knowledge about infrared physics, heat science, infrared measurement equipment and its application. As a Level 2 thermographer the participant shall provide guidance to category 1 personnel in the areas of equipment selection, techniques, limitations, data analysis, corrective actions and reporting.

#### Content

- Thermal science
- Heat transfer
- Temperature measurement
- Infrared science
- IR equipment and applications

#### Student presentations

During the seminar, students shall present a prepared case study to the class. The maximum duration (excl. discussion) should be 7 minutes and the maximum number of 7 slides should not be exceeded.

#### Labs (Note: Labs marked "(M)" are mandatory)

- Newton's law (class lab) (M)
- Advanced emissivity measurement (M)
- Variation of emissivity with the angle (M)
- Transient thermal transfer
- Indirect power measurement (M)
- IR-window transmission (M)
- Slit Response Function
- Hole Response Function (M)
- Parallel circuits

### Course information

#### Available languages

Dutch, English, German, French, Italian, Portuguese (bra.), Spanish, Swedish

#### Target group

- Professional user
- This course is designed for thermographers holding a Level 1 certificate, who want to increase their knowledge about IR thermography and who want to qualify as a Level 2 certified thermographer.

**P/N: ITC-CER-5201**

© 2015, FLIR Systems, Inc.

#ITC-CER-5201; r. 23306; en-US

Course information	
Typical student	<ul style="list-style-type: none"> <li>A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>having several months of professional experience within thermography,</li> <li>versed in camera operation and reporting,</li> <li>holding a Level 1 certificate,</li> <li>who needs the Level 2 Certification for guidance and supervision of other thermographers or is interested in deeper understanding of IR thermography.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Valid Level 1 thermography certificate,</li> <li>Recommended experience within thermography according to relevant standards,</li> <li>Prepared case study to be presented at the Level 2 course and submitted towards qualification at course closing.</li> </ul>
Course details	
Duration	40 hours
Structure	Theory, camera practice (hands-on), and prepared case studies alternate every day.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>Attendance of 1 person</li> <li>Might include more, such as lunch, depending on location and organizing entity.</li> </ul>
Course organization	
ITC	The Level 2 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in T560393 Courses offered by ITC partners. Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)

**P/N: ITC-CER-5201**

© 2015, FLIR Systems, Inc.

#ITC-CER-5201; r. 23306; en-US

- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°

**P/N: ITC-CER-5201**

© 2015, FLIR Systems, Inc.

#ITC-CER-5201; r. 23306; en-US

- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-CER-5209

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5209  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 2 certified thermographer. The participant will learn about topics in infrared thermography to increase the knowledge about infrared physics, heat science, infrared measurement equipment and its application. As a Level 2 thermographer the participant shall provide guidance to category 1 personnel in the areas of equipment selection, techniques, limitations, data analysis, corrective actions and reporting.

#### Content

- Thermal science
- Heat transfer
- Temperature measurement
- Infrared science
- IR equipment and applications

#### Student presentations

During the seminar, students shall present a prepared case study to the class. The maximum duration (excl. discussion) should be 7 minutes and the maximum number of 7 slides should not be exceeded.

#### Labs (Note: Labs marked "(M)" are mandatory)

- Newton's law (class lab) (M)
- Advanced emissivity measurement (M)
- Variation of emissivity with the angle (M)
- Transient thermal transfer
- Indirect power measurement (M)
- IR-window transmission (M)
- Slit Response Function
- Hole Response Function (M)
- Parallel circuits

### Course information

#### Available languages

Dutch, English, German, French, Italian, Portuguese (bra.), Spanish, Swedish

#### Target group

- Professional user
- This course is designed for thermographers holding a Level 1 certificate, who want to increase their knowledge about IR thermography and who want to qualify as a Level 2 certified thermographer.

**P/N: ITC-CER-5209**

© 2015, FLIR Systems, Inc.

#ITC-CER-5209; r. 23306; en-US

Course information	
Typical student	<ul style="list-style-type: none"> <li>A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>having several months of professional experience within thermography,</li> <li>versed in camera operation and reporting,</li> <li>holding a Level 1 certificate,</li> <li>who needs the Level 2 Certification for guidance and supervision of other thermographers or is interested in deeper understanding of IR thermography.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Valid Level 1 thermography certificate,</li> <li>Recommended experience within thermography according to relevant standards,</li> <li>Prepared case study to be presented at the Level 2 course and submitted towards qualification at course closing.</li> </ul>
Course details	
Duration	40 hours
Structure	Theory, camera practice (hands-on), and prepared case studies alternate every day.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as lunch, instructor's travel expenses, etc. depending on location and organizing entity.</li> </ul>
Course organization	
ITC	The Level 2 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in T560393 Courses offered by ITC partners. Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)

**P/N: ITC-CER-5209**

© 2015, FLIR Systems, Inc.

#ITC-CER-5209; r. 23306; en-US

- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°

**P/N: ITC-CER-5209**

© 2015, FLIR Systems, Inc.

#ITC-CER-5209; r. 23306; en-US

- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°



## P/N: ITC-PRA-2011

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-PRA-2011  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

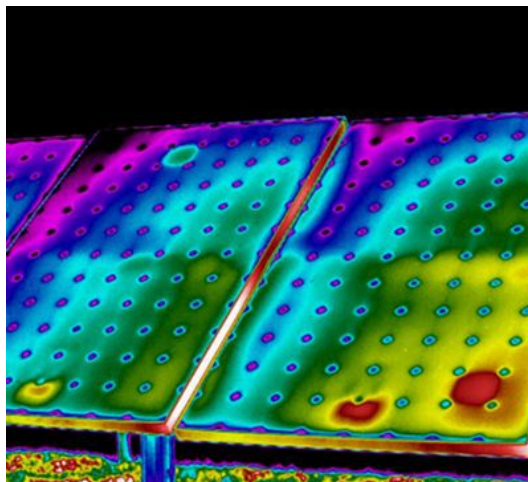
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course gives a general introduction to IR thermography and an overview on its specific use for inspections of photovoltaic solar systems.

During the first day, you learn about the basics of thermography, how a thermal camera works, and how to use it correctly. The second day starts with the basics of photovoltaic solar systems and solar panel installations. You learn about IR metrological particularities that are critical for solar panel inspections with a thermal camera, how to interpret the displayed thermal images, and in which way they can be associated to typical problems and faults. Emphasis is put on case studies, selected from the field, as well as practical exercises.

### Content

- Basics of thermography (radiation, spectral waveband, influences of the atmosphere)
- IR camera: principle, design and operation (FPA, measurement ranges, thermal tuning: level and span, color palettes)
- IR measurement technique: measurement parameters (emissivity, radiation from the environment, distance, relative humidity, atmospheric temperature)
- IR Camera figures of merit: resolution limits (thermal, spatial, time related)
- Practical exercises
- Basics of photovoltaic solar systems (terminology, design, principle of operation, module types)
- Solar panel installation: connection types (string, bypass diodes, shadowing)
- IR metrological particularity (spectral bands, inspection conditions, spatial resolution, camera positioning and angle)
- Typical thermal readouts (examples, causes and interpretation – defect/no defect, practical exercises)

### Course information

Available languages	English, French, German, Swedish, Italian, Dutch, Spanish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in the use of IR thermography for the inspection of photovoltaic solar systems.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person working with maintenance or installation of solar panels.</li> <li>• Thermographers familiar with electrical inspections and interested in solar panel inspections.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic knowledge in electrical installations or another technical field.</li> </ul>

### Course details

Duration	2 days
Structure	Theory, camera handling, demos and practical labs alternate.

**P/N: ITC-PRA-2011**

© 2015, FLIR Systems, Inc.

#ITC-PRA-2011; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by qualified ITC instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Might include more, such as lunch, depending on location</li> </ul>
Course organization	
ITC	The "ITC Practical Course Solar panel inspection" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC or ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Practical Course Solar panel inspection" is lectured by qualified ITC instructors with special experience in the field of solar panel installations.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5



---

**P/N: ITC-PRA-2011**

© 2015, FLIR Systems, Inc.

#ITC-PRA-2011; r. 23306; en-US

- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-PRA-2019

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-PRA-2019  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

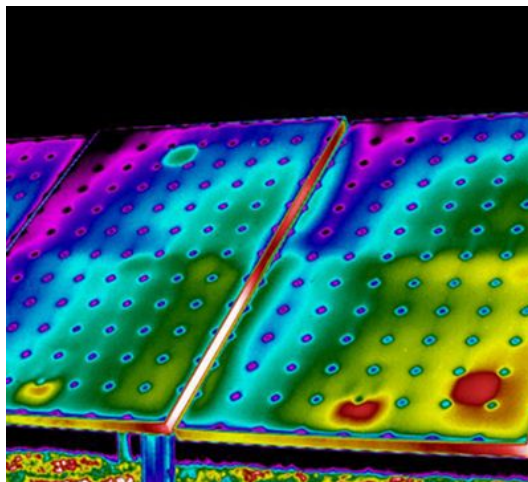
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course gives a general introduction to IR thermography and an overview on its specific use for inspections of photovoltaic solar systems.

During the first day, you learn about the basics of thermography, how a thermal camera works, and how to use it correctly. The second day starts with the basics of photovoltaic solar systems and solar panel installations. You learn about IR metrological particularities that are critical for solar panel inspections with a thermal camera, how to interpret the displayed thermal images, and in which way they can be associated to typical problems and faults. Emphasis is put on case studies, selected from the field, as well as practical exercises.

### Content

- Basics of thermography (radiation, spectral waveband, influences of the atmosphere)
- IR camera: principle, design and operation (FPA, measurement ranges, thermal tuning: level and span, color palettes)
- IR measurement technique: measurement parameters (emissivity, radiation from the environment, distance, relative humidity, atmospheric temperature)
- IR Camera figures of merit: resolution limits (thermal, spatial, time related)
- Practical exercises
- Basics of photovoltaic solar systems (terminology, design, principle of operation, module types)
- Solar panel installation: connection types (string, bypass diodes, shadowing)
- IR metrological particularity (spectral bands, inspection conditions, spatial resolution, camera positioning and angle)
- Typical thermal readouts (examples, causes and interpretation – defect/no defect, practical exercises)

### Course information

Available languages	English, French, German, Swedish, Italian, Dutch, Spanish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in the use of IR thermography for the inspection of photovoltaic solar systems.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person working with maintenance or installation of solar panels.</li> <li>• Thermographers familiar with electrical inspections and interested in solar panel inspections.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic knowledge in electrical installations or another technical field.</li> </ul>

### Course details

Duration	2 days
Structure	Theory, camera handling, demos and practical labs alternate.
Exam	None

**P/N: ITC-PRA-2019**

© 2015, FLIR Systems, Inc.

#ITC-PRA-2019; r. 23306; en-US

Course details	
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments or lunch, depending on location.</li> </ul>
Note	Course fee does not include cost for instructor's travelling or lodging.
Course organization	
ITC	The "ITC Practical Course Solar panel inspection" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC or ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Practical Course Solar panel inspection" is lectured by qualified ITC instructors with special experience in the field of solar panel installations.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3



**P/N: ITC-PRA-2019**

© 2015, FLIR Systems, Inc.

#ITC-PRA-2019; r. 23306; en-US

- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-2041

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2041  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course gives a general introduction to IR thermography and an overview on its specific use for inspections of electrical systems. It aims at giving you clues on what you can do with your camera.

During the first day, you learn the basics of thermography and how to use your camera the best way. The second day you will start with a brief reminder of thermal transfers before you learn about electrical systems and components, material properties, typical problems and faults. Emphasis is put on case studies, selected from the field.

### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- IR Camera handling
- Basics of heat transfer
- Electrical systems
- Important properties of material
- Most common problems
- Case studies
- Common mistakes
- Application guidelines
- Data analysis and reports

### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement
- Electrical application labs

### Course information

Available languages	English, French, German, Swedish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in IR thermography and electrical applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person working with maintenance or installation of electrical systems</li> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> <li>• Students and pupils with thermography and electrical application related projects</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>

**P/N: ITC-EXP-2041**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2041; r. 23306; en-US

Course details	
Duration	2 days
Structure	Theory, camera handling, demos and practical labs alternate.
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by qualified ITC instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Might include more, such as lunch, depending on location</li> </ul>
Course organization	
ITC	The "ITC Short Course Electrical Thermography" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Electrical Thermography" is lectured by qualified ITC instructors with special experience in the field of electrical installations.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)





---

**P/N: ITC-EXP-2041**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2041; r. 23306; en-US

- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-2049

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2049  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course gives a general introduction to IR thermography and an overview on its specific use for inspections of electrical systems. It aims at giving you clues on what you can do with your camera.

During the first day, you learn the basics of thermography and how to use your camera the best way. The second day you will start with a brief reminder of thermal transfers before you learn about electrical systems and components, material properties, typical problems and faults. Emphasis is put on case studies, selected from the field.

### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- IR Camera handling
- Basics of heat transfer
- Electrical systems
- Important properties of material
- Most common problems
- Case studies
- Common mistakes
- Application guidelines
- Data analysis and reports

### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement
- Electrical application labs

### Course information

Available languages	English, French, German, Swedish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in IR thermography and electrical applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person working with maintenance or installation of electrical systems</li> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> <li>• Students and pupils with thermography and electrical application related projects</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>

**P/N: ITC-EXP-2049**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2049; r. 23306; en-US

Course details	
Duration	2 days
Structure	Theory, camera handling, demos and practical labs alternate.
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by qualified ITC instructor</li> <li>• Training material in printed format</li> <li>• Diploma of attendance</li> <li>• Attendance of a group up to 10 persons</li> <li>• Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	The "ITC Short Course Electrical Thermography" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Electrical Thermography" is lectured by qualified ITC instructors with special experience in the field of electrical installations.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)



---

**P/N: ITC-EXP-2049**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2049; r. 23306; en-US

- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-1019

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1019  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This is a full one day course for beginners and everybody interested in IR thermography and its applications. The course covers the basics of IR theory and includes demos, camera hand-on and practical exercises using relevant key labs.

### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- Introduction to electrical and building inspections
- IR Camera handling
- Data analysis and reports

### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement

### Course information

Available languages	English, French, German, Swedish, Danish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in IR thermography and its applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> <li>• A person who starts to use IR cameras at work</li> <li>• Students and pupils with thermography related projects</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>

### Course details

Duration	1 day
Structure	Theory, camera handling and demos in the morning. Practical labs in the afternoon.

**P/N: ITC-EXP-1019**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1019; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	The "ITC Short Course Introduction to Thermography" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Introduction to Thermography" is lectured by qualified ITC instructors with long time experience in the various fields of thermography.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)

**P/N: ITC-EXP-1019**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1019; r. 23306; en-US

- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC



---

**P/N: ITC-EXP-1019**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1019; r. 23306; en-US

- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display



## P/N: ITC-EXP-1011

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1011  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This is a full one day course for beginners and everybody interested in IR thermography and its applications. The course covers the basics of IR theory and includes demos, camera hand-on and practical exercises using relevant key labs.	
Content	
<ul style="list-style-type: none"> <li>Basics of thermography</li> <li>Basics of emissivity and reflected apparent temperature</li> <li>Introduction to electrical and building inspections</li> <li>IR Camera handling</li> <li>Data analysis and reports</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Emissivity and Trefl</li> <li>Influence of the angle on the measurement</li> <li>Influence of the object size on the measurement</li> </ul>	
Course information	
Available languages	English, French, German, Swedish, Danish
Target group	<ul style="list-style-type: none"> <li>Beginners and everybody interested in IR thermography and its applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Someone looking to purchase a camera</li> <li>Someone who just purchased a camera</li> <li>A person who starts to use IR cameras at work</li> <li>Students and pupils with thermography related projects</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Interest for the technology and its applications</li> </ul>
Course details	
Duration	1 day
Structure	Theory, camera handling and demos in the morning. Practical labs in the afternoon.

**P/N: ITC-EXP-1011**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1011; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>
Course organization	
ITC	The "ITC Short Course Introduction to Thermography" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Introduction to Thermography" is lectured by qualified ITC instructors with long time experience in the various fields of thermography.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)

**P/N: ITC-EXP-1011**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1011; r. 23306; en-US

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL

---

**P/N: ITC-EXP-1011**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1011; r. 23306; en-US

- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-SOW-0001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-SOW-0001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
These courses are for users of FLIR software like FLIR Reporter Professional or FLIR ResearchIR. Please observe that content and labs depend on the software used.	
Content	
<ul style="list-style-type: none"> <li>• System requirements</li> <li>• Configuration</li> <li>• Analyzing functions</li> <li>• Templates</li> <li>• Reporting functions</li> <li>• Data exchange</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>• System set up</li> <li>• Data import</li> <li>• Data analysis</li> <li>• Creating templates</li> <li>• Creating reports</li> <li>• Exporting data</li> <li>• Triggering</li> </ul>	
Course information	
Available languages	English, French, German, other languages upon request
Target group	<ul style="list-style-type: none"> <li>• Persons interested in, or users, of the specific software.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Consultants interested in reporting</li> <li>• Building inspectors with reporting needs</li> <li>• R&amp;D staff interested in advanced data analysis</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Laptop with installed software full version or 30 day demo (download on <a href="http://www.flir.com">www.flir.com</a>)</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic knowledge about thermography and related parameters.</li> </ul>
Course details	
Duration	Depends on software.
Structure	Short system introduction, then demos and practical exercises.

**P/N: ITC-SOW-0001**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0001; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>
Course organization	
ITC	Software courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Software courses are lectured by ITC qualified instructors experienced in usage of the software being subject of the class.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)

**P/N: ITC-SOW-0001**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0001; r. 23306; en-US

- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°

**P/N: ITC-SOW-0001**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0001; r. 23306; en-US

- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display



## P/N: ITC-SOW-0009

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-SOW-0009  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
These courses are for users of FLIR software like FLIR Reporter Professional or FLIR ResearchIR. Please observe that content and labs depend on the software used.	
Content	
<ul style="list-style-type: none"> <li>System requirements</li> <li>Configuration</li> <li>Analyzing functions</li> <li>Templates</li> <li>Reporting functions</li> <li>Data exchange</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>System set up</li> <li>Data import</li> <li>Data analysis</li> <li>Creating templates</li> <li>Creating reports</li> <li>Exporting data</li> <li>Triggering</li> </ul>	
Course information	
Available languages	English, French, German, other languages upon request
Target group	<ul style="list-style-type: none"> <li>Persons interested in, or users, of the specific software.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Consultants interested in reporting</li> <li>Building inspectors with reporting needs</li> <li>R&amp;D staff interested in advanced data analysis</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Laptop with installed software full version or 30 day demo (download on <a href="http://www.flir.com">www.flir.com</a>)</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Basic knowledge about thermography and related parameters.</li> </ul>
Course details	
Duration	Depends on software.
Structure	Short system introduction, then demos and practical exercises.

**P/N: ITC-SOW-0009**

© 2015, FLIR Systems, Inc.  
#ITC-SOW-0009; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	Software courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Software courses are lectured by ITC qualified instructors experienced in usage of the software being subject of the class.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm

**P/N: ITC-SOW-0009**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0009; r. 23306; en-US

- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°

**P/N: ITC-SOW-0009**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0009; r. 23306; en-US

- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-1001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	1 day
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-1001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1001; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-1001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1001; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-1001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1001; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display



## P/N: ITC-EXP-1009

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1009  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	1 day
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-1009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1009; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-1009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1009; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-1009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1009; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-2001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	2 days
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-2001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2001; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-2001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2001; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

---

**P/N: ITC-EXP-2001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2001; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display



## P/N: ITC-EXP-2009

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2009  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	2 days
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-2009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2009; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-2009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2009; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-2009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2009; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-3001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-3001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	3 days
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-3001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3001; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-3001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3001; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-3001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3001; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display



## P/N: ITC-EXP-3009

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-3009  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	3 days
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-3009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3009; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-3009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3009; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-3009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3009; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-SOW-1001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-SOW-1001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

ITC Training FLIR Software - attendance 1 pers. (1 day)

### Course details

Duration	1 day
----------	-------

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)



---

**P/N: ITC-SOW-1001**

© 2015, FLIR Systems, Inc.

#ITC-SOW-1001; r. 23306; en-US

- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-SOW-2001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-SOW-2001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

ITC Training FLIR Software - attendance 1 pers. (2 days)

### Course details

Duration	2 days
----------	--------

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)



---

**P/N: ITC-SOW-2001**

© 2015, FLIR Systems, Inc.

#ITC-SOW-2001; r. 23306; en-US

- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5



## P/N: ITC-TFT-0100

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TFT-0100  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

ITC travel time for instructor

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TFT-0100**

© 2015, FLIR Systems, Inc.  
#ITC-TFT-0100; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TFT-0100**

© 2015, FLIR Systems, Inc.  
#ITC-TFT-0100; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-FEE-0130

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-FEE-0130  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
EN - Repeat Certification EN473 IT Category 1	
Course information	
Available languages	DACH only
Course details	
Duration	1 day

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)

---

**P/N: ITC-FEE-0130**

© 2015, FLIR Systems, Inc.

#ITC-FEE-0130; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TOL-1003

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1003  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (Center and South Africa)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1003**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1003; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TOL-1003**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1003; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5



## P/N: ITC-TOL-1001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (Europe, Balcans, Turkey, Cyprus)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1001**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1001; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TOL-1001**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1001; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TOL-1005

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1005  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (other)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1005**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1005; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TOL-1005**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1005; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TOL-1002

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1002  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (Russia/GUS, Middle East, North Africa)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1002**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1002; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC



**P/N: ITC-TOL-1002**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1002; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TOL-1004

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1004  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (various)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1004**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1004; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TOL-1004**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1004; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

# Accessories for FLIR Bxxx series (discontinued camera series)

---

## P/N: 19250-100

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 19250-100  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This device is a viewport which consist of a crystal "glass" window, mounted in an aluminum frame. The glass is specially formulated to allow transmission of infrared light to allow use of infrared thermal sensing equipment without opening the enclosure. This device is intended for installation in doors or walls of electrical enclosures without compromising the integrity of the enclosure.	
Power system	
Voltage	Any range
Environmental data	
Environment	Indoor/outdoor type 4/12
Operating temperature range	Maximum: 260°C (500°F)
Storage temperature range	Optics, maximum: 1357°C (2474°F)
Physical data	
Size (L x W x H)	25.5 x 73 x 86 mm (1.0 x 2.87 x 3.36 in.)
Viewing aperture diameter	45 mm (1.77 in.)
Material	Optics: CaF2 (Calcium Fluoride Crystal) Body: Anodized aluminum Hardware: steel
Comments to physical data	Required hole diameter, nominal: 60.3 mm (2.375 in.) Greenlee Punch: 76BB Maximum pullout strength: 658 kg (1450 lb.)
Lens	
Waveband	Broadband IR: short-, mid-, and longwave
Visible light spectrum	Yes
Certifications	
Certification	UL, IP67, NEMA Type 4/12, CSA
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>IR window</li> <li>Case</li> <li>Mounting instruction</li> <li>Additional safety screw</li> </ul>
Packaging, weight	0.24 kg (0.53 lb.)
Packaging, size	120 x 115 x 40 mm (4.7 x 4.5 x 1.6 in.)
EAN-13	4743254000728
UPC-12	845188002817
Country of origin	Estonia



IR Window 2 in

---

**P/N: 19250-100**

© 2015, FLIR Systems, Inc.  
#19250-100; r. 23306; en-US

**Supplies & accessories:**

## P/N: 19251-100

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 19251-100  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This device is a viewport which consist of a crystal "glass" window, mounted in an aluminum frame. The glass is specially formulated to allow transmission of infrared light to allow use of infrared thermal sensing equipment without opening the enclosure. This device is intended for installation in doors or walls of electrical enclosures without compromising the integrity of the enclosure.	
Power system	
Voltage	Any range
Environmental data	
Environment	Indoor/outdoor type 4/12
Operating temperature range	Maximum: 260°C (500°F)
Storage temperature range	Optics, maximum: 1357°C (2474°F)
Physical data	
Size (L × W × H)	26.9 × 99 × 107 mm (1.05 × 3.89 × 4.22 in.)
Viewing aperture diameter	69 mm (2.71 in.)
Material	Optics: CaF <sub>2</sub> (Calcium Fluoride Crystal) Body: Anodized aluminum Hardware: steel
Comments to physical data	Required hole diameter, nominal: 88.9 mm (3.5 in.) Greenlee Punch: 739BB Maximum pullout strength: 1656 kg (3650 lb.)
Lens	
Waveband	Broadband IR: short-, mid-, and longwave
Visible light spectrum	Yes
Certifications	
Certification	UL, IP67, NEMA Type 4/12, CSA
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>IR window</li> <li>Case</li> <li>Mounting instruction</li> <li>Additional safety screw</li> </ul>
Packaging, weight	0.39 kg (0.86 lb.)
Packaging, size	130 × 140 × 40 mm (5.12 × 5.51 × 1.58 in.)
EAN-13	4743254000735
UPC-12	845188002824
Country of origin	Estonia





IR Window 3 in.

---

**P/N: 19251-100**

© 2015, FLIR Systems, Inc.  
#19251-100; r. 23306; en-US

**Supplies & accessories:**

## P/N: 19252-100

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 19252-100  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This device is a viewport which consist of a crystal "glass" window, mounted in an aluminum frame. The glass is specially formulated to allow transmission of infrared light to allow use of infrared thermal sensing equipment without opening the enclosure. This device is intended for installation in doors or walls of electrical enclosures without compromising the integrity of the enclosure.	
Power system	
Voltage	Any range
Environmental data	
Environment	Indoor/outdoor type 4/12
Operating temperature range	Maximum: 260°C (500°F)
Storage temperature range	Optics, maximum: 1357°C (2474°F)
Physical data	
Size (L x W x H)	29.3 x 127 x 137 mm (1.15 x 5.01 x 5.37 in.)
Viewing aperture diameter	89 mm (3.50 in.)
Material	Optics: CaF2 (Calcium Fluoride Crystal) Body: Anodized aluminum Hardware: steel
Comments to physical data	Required hole diameter, nominal: 114.3 mm (4.5 in.) Greenlee Punch: 742BB Maximum pullout strength: 1678 kg (3700 lb.)
Lens	
Waveband	Broadband IR: short-, mid-, and longwave
Visible light spectrum	Yes
Certifications	
Certification	UL, IP67, NEMA Type 4/12, CSA
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>IR window</li> <li>Case</li> <li>Mounting instruction</li> <li>Additional safety screw</li> </ul>
Packaging, weight	0.46 kg (1.01 lb.)
Packaging, size	165 x 175 x 40 mm (6.50 x 6.89 x 1.58 in.)
EAN-13	4743254000742
UPC-12	845188002831
Country of origin	Estonia



IR Window 4 in.

---

**P/N: 19252-100**

© 2015, FLIR Systems, Inc.  
#19252-100; r. 23306; en-US

**Supplies & accessories:**

## P/N: 1196961

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1196961  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
The 15° lens is a popular lens accessory and provides 1.7× magnification compared to the standard lens. Ideal for small or distant targets such as overhead power lines.	
Imaging and optical data	
Field of view (FOV)	15° × 11.25°
Minimum focus distance	1.2 m (3.93 ft.)
Focal length	30.38 mm (1.2 in.)
Spatial resolution (IFOV)	Depends on the IR resolution of the camera: 1.65 mrad for 160 × 120 pixels 1.32 mrad for 200 × 150 pixels 1.10 mrad for 240 × 180 pixels 0.82 mrad for 320 × 240 pixels
F-number	1.3
Physical data	
Weight	0.092 kg (0.203 lb.), incl. two lens caps
Size (L × D)	24 × 58 mm (1.0 × 2.3 in.)
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Lens</li> <li>• Lens case</li> </ul>
Packaging, weight	0.32 kg (0.71 lb.)
Packaging, size	172 × 131 × 133 mm (6.8 × 5.2 × 5.2 in.)
EAN-13	7332558001134 4743254000889 (Estonia plant)
UPC-12	845188000127
Country of origin	Sweden

### Compatible with the following products

- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)

---

**P/N: 1196961**

© 2015, FLIR Systems, Inc.  
#1196961; r. 23380; en-US

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: 1196960

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1196960  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This wide angle lens has a field of view almost double that of the standard lens. Perfect for wide or tall targets or when working in crowded spaces.	
Imaging and optical data	
Field of view (FOV)	45° × 33.8°
Minimum focus distance	0.20 m (0.66 ft.)
Focal length	9.66 mm (0.38 in.)
Spatial resolution (IFOV)	Depends on the IR resolution of the camera: 5.18 mrad for 160 × 120 pixels 4.14 mrad for 200 × 150 pixels 3.45 mrad for 240 × 180 pixels 2.59 mrad for 320 × 240 pixels
F-number	1.3
Physical data	
Weight	0.105 kg (0.231 lb.), incl. two lens caps
Size (L × D)	38 × 47 mm (1.5 × 1.9 in.)
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Lens</li> <li>• Lens case</li> </ul>
Packaging, weight	0.33 kg (0.73 lb.)
Packaging, size	172 × 131 × 133 mm (6.8 × 5.2 × 5.2 in.)
EAN-13	7332558001141 4743254000834 (Estonia plant)
UPC-12	845188000134
Country of origin	Sweden

### Compatible with the following products

- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)

---

**P/N: 1196960**

© 2015, FLIR Systems, Inc.  
#1196960; r. 23380; en-US

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: T197215

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197215  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
For R&D usage or development purposes. As an example looking at PCB's or small electronic components.	
Imaging and optical data	
Field of view (FOV)	32 × 24 mm
Magnifying factor	4×
Working distance	79 mm
Depth of field	±2.0 mm
Focal length	73 mm (2.9 in.)
Spatial resolution (IFOV)	Depends on the IR resolution of the camera: 200 µm for 160 × 120 pixels 160 µm for 200 × 150 pixels 133 µm for 240 × 180 pixels 100 µm for 320 × 240 pixels
F-number	1.3
Number of lenses	2 (2 asph)
MTF @ 70% of FOV	Normal requirements (52%)
Distortion	3%
Physical data	
Weight	0.11 kg (0.24 lb.)
Size (L × D)	35.2 × 55 mm
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Lens</li> <li>• Lens case</li> </ul>
Packaging, weight	0.340 kg (0.75 lb.)
Packaging, size	172 × 131 × 133 mm (6.8 × 5.2 × 5.2 in.)
EAN-13	7332558005088
UPC-12	845188005115
Country of origin	Sweden

### Compatible with the following products

- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)



---

**P/N: T197215**

© 2015, FLIR Systems, Inc.  
#T197215; r. 23380; en-US

- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc

## P/N: T197214

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197214  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
For R&D usage or development purposes. As an example looking at PCB's or small electronic components.	
Imaging and optical data	
Field of view (FOV)	16 × 12 mm
Magnifying factor	2×
Working distance	33 mm
Depth of field	±0.4 mm
Focal length	37 mm (1.5 in.)
Spatial resolution (IFOV)	Depends on the IR resolution of the camera: 100 µm for 160 × 120 pixels 80 µm for 200 × 150 pixels 67 µm for 240 × 180 pixels 50 µm for 320 × 240 pixels
F-number	1.3
Number of lenses	2 (2 asph)
MTF @ 70% of FOV	Normal requirements (52%)
Distortion	3%
Physical data	
Weight	0.11 kg (0.24 lb.)
Size (L × D)	35.2 × 55 mm
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Lens</li> <li>• Lens case</li> </ul>
Packaging, weight	0.346 kg (0.8 lb.)
Packaging, size	172 × 131 × 133 mm (6.8 × 5.2 × 5.2 in.)
EAN-13	7332558005095
UPC-12	845188005122
Country of origin	Sweden

### Compatible with the following products

- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)



Close-up 2x (50 µm) incl. case

---

**P/N: T197214**

© 2015, FLIR Systems, Inc.  
#T197214; r. 23380; en-US

- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc

## P/N: T197408

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197408  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
A narrow FOV is used in applications where the object that is going to be monitored is remote from the Camera or when the Camera needs to be far away from the object due to for an example high temperatures.	
Imaging and optical data	
Field of view (FOV)	6° × 4.5°
Minimum focus distance	4 m (13.11 ft.)
Focal length	76 mm (3.0 in.)
Spatial resolution (IFOV)	Depends on the IR resolution of the camera: 0.66 mrad for 160 × 120 pixels 0.53 mrad for 200 × 150 pixels 0.44 mrad for 240 × 180 pixels 0.33 mrad for 320 × 240 pixels
F-number	1.3
Number of lenses	3 (3 asph)
MTF @ 70% of FOV	Normal requirements (52%)
Distortion	3%
Physical data	
Weight	Lens: 0.328 kg (0.723 lb.) Support: 0.099 kg (0.218 lb.)
Size (L × D)	106 × 89 mm (4.17 × 3.48 in.), excluding support
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Lens</li> <li>• Lens case</li> <li>• Mounting support</li> </ul>
Packaging, weight	1.211 kg (2.7 lb.)
Packaging, size	385 × 308 × 165 mm (15.2 × 12.1 × 6.5 in.)
EAN-13	7332558004524
UPC-12	845188004491
Country of origin	Sweden

### Compatible with the following products

- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)



IR lens, 76 mm (6°) with case and mounting support for T/B-200/400

---

**P/N: T197408**

© 2015, FLIR Systems, Inc.  
#T197408; r. 23380; en-US

- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)

## P/N: T197412

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197412  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
A wide angle lens is used when working in confined areas or when a large object area needs to be covered. This lens is also designed for to look in to electrical cabinets down to 1/2" windows	
Imaging and optical data	
Field of view (FOV)	90° × 73°
Minimum focus distance	40 mm (1.57 in.)
Focal length	4 mm (0.157 in.)
Spatial resolution (IFOV)	Depends on the IR resolution of the camera: 12.5 mrad for 160 × 120 pixels 10.0 mrad for 200 × 150 pixels 8.33 mrad for 240 × 180 pixels 6.25 mrad for 320 × 240 pixels
F-number	1.3
Number of lenses	3 (3 asph)
MTF @ 70% of FOV	Normal requirements (52%)
Distortion	5%
Physical data	
Weight	Lens: 0.262 kg (0.578 lb.) Support: 0.053 kg (0.117 lb.)
Size (L × D)	90 × 60 mm (3.54 × 2.36 in.), excluding support
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Lens</li> <li>• Lens case</li> <li>• Mounting support</li> </ul>
Packaging, weight	1.056 kg (2.3 lb.)
Packaging, size	385 × 308 × 165 mm (15.2 × 12.1 × 6.5 in.)
EAN-13	7332558004517
UPC-12	845188004484
Country of origin	Sweden

### Compatible with the following products

- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)



IR lens, 4 mm (90°) with case and mounting support for T/B2xx-4xx

---

**P/N: T197412**

© 2015, FLIR Systems, Inc.  
#T197412; r. 23380; en-US

- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)

## P/N: 1196818

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1196818  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Lens cap for the camera	
Physical data	
Weight	6 g (0.2 oz.)
Color	Black
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558001257
UPC-12	845188009557
Country of origin	Sweden

### Compatible with the following products

- N/A



## P/N: T197000

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197000  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

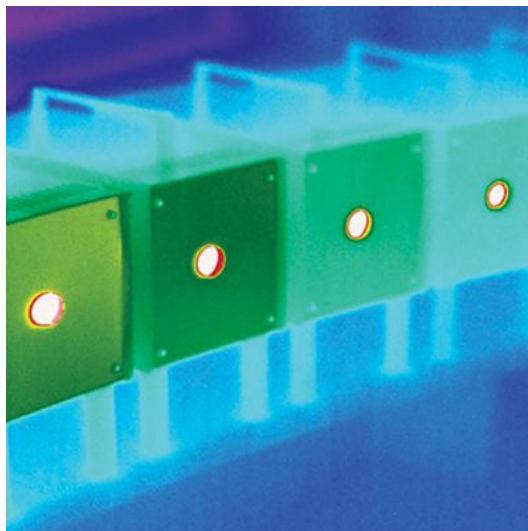
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
For high temperature applications the camera can be calibrated for high temperature ranges.	
Measurement	
Optional object temperature range	+200°C to +1200°C (+392°F to +2192°F)

### Compatible with the following products

- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL



High temp. option +1200°C/+2192°F for FLIR T/B2xx to T/B4xx and A3xx, A3xxf, A3xxpt, A3xxsc series

---

**P/N: T197000**

© 2015, FLIR Systems, Inc.  
#T197000; r. 23306; en-US

- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL

## P/N: T197006

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197006  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

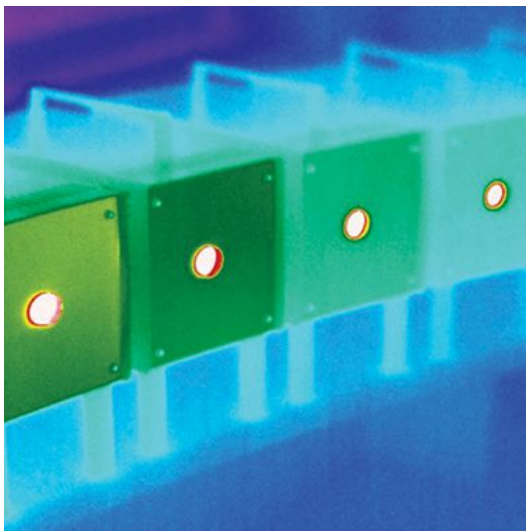
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

For high temperature applications the camera can be calibrated for high temperature ranges.

### Measurement

Optional object temperature range	Up to +350°C (+662°F)
-----------------------------------	-----------------------

### Compatible with the following products

- N/A

## P/N: 1196398ACC

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1196398ACC  
Commit: 23871  
Language: en-US  
Modified: 2015-03-10 13:36  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
High capacity battery for the IR camera.	
Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	7.2 V
Battery capacity	2.2 Ah, at +20°C (+68°F)
Battery note	Approximate lithium content: 1.0 g
Charging time	2.5 h to 95% capacity, charging status indicated by LEDs
Charging temperature	0°C to +45°C (+32°F to +113°F)
Environmental data	
Battery storage temperature range	-40°C to +70°C (-40°F to +158°F)
Physical data	
Battery weight	0.12 kg (0.26 lb.)
Size (L × W × H)	92 × 41 × 26 mm (3.6 × 1.6 × 1.0 in.)
Shipping information	
Packaging, type	Cardboard box
List of contents	• Battery
Packaging, weight	0.21 kg (0.46 lb.)
Packaging, size	183 × 136 × 63 mm (7.2 × 5.4 × 2.5 in.)
EAN-13	7332558007921
UPC-12	845188008284
Country of origin	Sweden

### Compatible with the following products

- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)

## P/N: T198509

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198509  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This cable is used to power the infrared camera from the cigarette lighter socket in a car.	
Note: This is the same product as p/n 1196497.	
Physical data	
Cable length	1.2 m (3.9 ft).
Shipping information	
Packaging, type	Cardboard box
Packaging, weight	0.125 kg (0.28 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558004340 4743254001435 (Estonia plant)
UPC-12	845188004361
Country of origin	Sweden

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)

**P/N: T198509**

© 2015, FLIR Systems, Inc.  
#T198509; r. 23306; en-US

- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72201-0106; FLIR K45
- 72201-0206; FLIR K55

## P/N: T197667

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197667  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
A complete battery package consisting of three standard products	
Shipping information	
List of contents	<ul style="list-style-type: none"> <li>T197648 Battery kit, see 1196398 - Battery for specifications</li> <li>T197650 2-bay charger kit incl Power supply</li> <li>T197649 12 VDC Connection cable kit, see 1196497 - 12 VDC connection cable for specifications</li> </ul>
EAN-13	7332558009307
UPC-12	845188009830
Country of origin	Sweden

### Compatible with the following products

- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)

### P/N: T197650

#### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

#### Document identity

Publ. No.: T197650  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

#### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

#### Website

<http://www.flir.com>

#### Customer support

<http://support.flir.com>

#### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Stand-alone 2-bay battery charger, including power supply with multi plugs.	
Power system	
AC operation	100–240 VAC, 50/60 Hz, 12 VDC out
Power	2000 mA at 12 VDC
Physical data	
Battery charger size (L × W × H)	80 × 98 × 47 mm (3.2 × 3.9 × 1.8 in.), without battery
Cable length	1.98 m (6.5 ft.)
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"><li>• Stand-alone 2-bay battery charger</li><li>• Power supply including cable</li><li>• EU plug</li><li>• UK plug</li><li>• US plug</li><li>• AU plug</li></ul>
Packaging, weight	0.542 kg (1.2 lb.)
Packaging, size	243 × 165 × 82 mm (9.6 × 6.5 × 3.2 in.)
EAN-13	7332558007914
UPC-12	845188002657
Country of origin	Sweden

#### Compatible with the following products

- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)



## P/N: T910814

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T910814  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
FLIR P/B/SC6xx and FLIR GF3xx series:	
Power supply, including multiple plugs, to charge the battery when it is inside or outside of the camera.	
FLIR T6xx and FLIR Exx series:	
Power supply, including multiple plugs, to charge the battery when it is inside the camera or in the battery charger.	
Power system	
AC operation	100–240 VAC, 50/60 Hz, 12 VDC out
Power	3000 mA at 12 VDC
Physical data	
Cable length	1.98 m (6.5 ft.)
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Power supply including cable</li> <li>EU plug</li> <li>UK plug</li> <li>US plug</li> <li>AU plug</li> </ul>
Packaging, weight	0.324 kg (9.7 lb.)
Packaging, size	152 × 78 × 73 mm (6.0 × 3.1 × 2.9 in.)
EAN-13	7332558003794 4743254001763 (Estonia plant)
UPC-12	845188002145
Country of origin	Sweden

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)

**P/N: T910814**

© 2015, FLIR Systems, Inc.  
#T910814; r. 23306; en-US

- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)



Power supply, incl. multi plugs

---

**P/N: T910814**

© 2015, FLIR Systems, Inc.  
#T910814; r. 23306; en-US

- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

**P/N: 1910423**

**Copyright**

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

**Document identity**

Publ. No.: 1910423  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

**Corporate Headquarters**

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

**Website**

<http://www.flir.com>

**Customer support**

<http://support.flir.com>

**Disclaimer**

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This cable is used to connect the infrared camera with a computer, using the USB protocol.	
Physical data	
Weight	60 g (2.1 oz.)
Cable length	1.8 m (5.9 ft.)
Connector	Standard USB-A to USB Mini-B
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558003428
UPC-12	845188002176
Country of origin	Sweden

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)

**P/N: 1910423**

© 2015, FLIR Systems, Inc.  
#1910423; r. 23306; en-US

- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40



---

**P/N: 1910423**

© 2015, FLIR Systems, Inc.  
#1910423; r. 23306; en-US

- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72201-0106; FLIR K45
- 72201-0206; FLIR K55

## P/N: T198370ACC

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198370ACC  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Rugged, watertight plastic shipping case. Holds all items neatly and securely. The case can be locked with padlocks and features a membrane to prevent pressure build-up in airplane cargo holds.	
Physical data	
Weight	2.54 kg (5.59 lb.)
Size (L x W x H)	484 x 345 x 178 mm (19.1 x 13.6 x 7.0 in.)
Material	PP with Rubber Blend (Polypropylene)
Color	Black
Shipping information	
Packaging, type	Cardboard box
List of contents	• Hard transport case
Packaging, weight	3.05 kg (6.72 lb.)
Packaging, size	495 x 370 x 192 mm (19.5 x 14.6 x 7.6 in.)
EAN-13	7332558008348
UPC-12	845188008697
Country of origin	Sweden

### Compatible with the following products

- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)

## P/N: 1124545

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1124545  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Pouch, with strap and belt clip, to carry and protect the camera, made in durable nylon.	
Shipping information	
List of contents	<ul style="list-style-type: none"><li>• Pouch</li><li>• Strap</li><li>• Clip</li></ul>
EAN-13	7332558001233
UPC-12	845188000165
Country of origin	Sweden

### Compatible with the following products

- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)



**P/N: T951387**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: T951387  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Wi-Fi USB adapter for wireless connection between the infrared camera and external equipment.	
NOTE: Only for use in markets accepting CE and FCC regulations for wireless equipment.	
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Wi-Fi USB micro adapter</li> </ul>
Packaging, weight	0.062 kg (0.14 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005859
UPC-12	845188006068
Country of origin	Sweden

## Compatible with the following products

- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

## P/N: T198586

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198586  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

FLIR Reporter Professional is a powerful software for creating compelling and professional, fully customized, easy-to-interpret maintenance reports.

Professional Report Wizard guides you step-by-step in combining all IR inspection data - infrared and visual images, temperature measurements, and text notes – into a professional, easy-to-interpret maintenance report.

### Key features:

- Flexible report page design and layout for customized reports
- Use quick insert function to easily create custom report pages
- Fully integrated with standard Microsoft Word
- Generates reports in standard MS Office format and PDF-format
- Powerful temperature analysis
- Triple Fusion Picture-in-Picture (movable, sizable, scalable)
- Rapid report manager supporting automatic report generation by drag-and-drop
- Support for MSX (Multi-Spectral Dynamic Imaging) images
- Support for sketch images in both IR and visual with on/off toggling
- Support for same FOV ("Field of View Match")
- Grid settings
- Trending functionality
- Automatic link to Google™ Maps for images with GPS coordinates
- Automatic summary table for the report
- Fine tune images and make full temperature analysis directly in Microsoft Word
- Spell check
- Create your own formulas including measurement values from images
- Play radiometric sequences directly in the report
- Search functionality to quickly finding images for your report
- Panorama tool for combining several images to a larger image
- Support for GF series IR images
- Auto Update function
- Office 2003 (32-bit), Office 2007 (32-bit) and Office 2010 (32-bit)
- Windows 7 (32 and 64-bit), Windows Vista (32 and 64-bit)
- Support for METERLiNK™ data
- \*.docx compatibility

### Download

Download your copy of FLIR Reporter Professional here:

<http://support.flir.com/reporter>

**P/N: T198586**

© 2015, FLIR Systems, Inc.  
#T198586; r. 23306; en-US

Release notes	
Version	9.2
New features	<ul style="list-style-type: none"> <li>— News in 9.2: —</li> <li>Option to hide Zoom Viewer</li> <li>Option to extract Visual image from MSI/Fusion image.</li> <li>Support for the new FLIR Ex and Exx series cameras.</li> <li>Support for multispectral images.</li> <li>Support for auto-oriented images.</li> <li>Various bug fixes.</li> </ul>
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>FLIR Reporter Professional scratchcard</li> </ul>
Packaging, weight	0.135 kg (0.3 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005286 4743254001893 (Estonia plant)
UPC-12	845188005498
Country of origin	Sweden
System requirements	
Operating system	<ul style="list-style-type: none"> <li>Windows XP, 32-bit</li> <li>Windows Vista, 32-bit</li> <li>Windows Vista, 64-bit</li> <li>Windows 7, 32-bit</li> <li>Windows 7, 64-bit</li> </ul>
Software requirements	<ul style="list-style-type: none"> <li>Office 2007 (32-bit)</li> <li>Office 2010 (32-bit)</li> </ul>

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)

**P/N: T198586**

© 2015, FLIR Systems, Inc.  
#T198586; r. 23306; en-US

- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: T198586

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198586  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

FLIR Reporter Professional is a powerful software for creating compelling and professional, fully customized, easy-to-interpret maintenance reports.

Professional Report Wizard guides you step-by-step in combining all IR inspection data - infrared and visual images, temperature measurements, and text notes – into a professional, easy-to-interpret maintenance report.

### Key features:

- Flexible report page design and layout for customized reports
- Use quick insert function to easily create custom report pages
- Fully integrated with standard Microsoft Word
- Generates reports in standard MS Office format and PDF-format
- Powerful temperature analysis
- Triple Fusion Picture-in-Picture (movable, sizable, scalable)
- Rapid report manager supporting automatic report generation by drag-and-drop
- Support for MSX (Multi-Spectral Dynamic Imaging) images
- Support for sketch images in both IR and visual with on/off toggling
- Support for same FOV ("Field of View Match")
- Grid settings
- Trending functionality
- Automatic link to Google™ Maps for images with GPS coordinates
- Automatic summary table for the report
- Fine tune images and make full temperature analysis directly in Microsoft Word
- Spell check
- Create your own formulas including measurement values from images
- Play radiometric sequences directly in the report
- Search functionality to quickly finding images for your report
- Panorama tool for combining several images to a larger image
- Support for GF series IR images
- Auto Update function
- Office 2003 (32-bit), Office 2007 (32-bit) and Office 2010 (32-bit)
- Windows 7 (32 and 64-bit), Windows Vista (32 and 64-bit)
- Support for METERLiNK™ data
- \*.docx compatibility

### Download

Download your copy of FLIR Reporter Professional here:

<http://support.flir.com/reporter>

**P/N: T198586**

© 2015, FLIR Systems, Inc.  
#T198586; r. 23306; en-US

Release notes	
Version	9.2
New features	<ul style="list-style-type: none"> <li>— News in 9.2: —</li> <li>Option to hide Zoom Viewer</li> <li>Option to extract Visual image from MSI/Fusion image.</li> <li>Support for the new FLIR Ex and Exx series cameras.</li> <li>Support for multispectral images.</li> <li>Support for auto-oriented images.</li> <li>Various bug fixes.</li> </ul>
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>FLIR Reporter Professional scratchcard</li> </ul>
Packaging, weight	0.135 kg (0.3 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005286 4743254001893 (Estonia plant)
UPC-12	845188005498
Country of origin	Sweden
System requirements	
Operating system	<ul style="list-style-type: none"> <li>Windows XP, 32-bit</li> <li>Windows Vista, 32-bit</li> <li>Windows Vista, 64-bit</li> <li>Windows 7, 32-bit</li> <li>Windows 7, 64-bit</li> </ul>
Software requirements	<ul style="list-style-type: none"> <li>Office 2007 (32-bit)</li> <li>Office 2010 (32-bit)</li> </ul>

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)

**P/N: T198586**

© 2015, FLIR Systems, Inc.  
#T198586; r. 23306; en-US

- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: T198584

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198584  
Commit: 25122  
Language: en-US  
Modified: 2015-04-29 09:51  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
FLIR Tools is a software suite specifically designed to provide an easy way to update your camera and create inspection reports.	
Key features:	
<ul style="list-style-type: none"> <li>Report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR).</li> <li>Manual IR/Visual Image Grouping</li> <li>Import images from your camera to your computer.</li> <li>Apply filters when searching for images.</li> <li>Search all text in images and text annotations.</li> <li>Store the five latest search criteria's.</li> <li>Lay out, move, and resize measurement tools on any infrared image.</li> <li>Create PDF imagesheets of any images of your choice.</li> <li>Add headers, footers, and logos to imagesheets.</li> <li>Create PDF reports for images of your choice.</li> <li>Add headers, footers, and logos to reports.</li> <li>Report editor (report page preview and snap to grid).</li> <li>Sort function (by date, groups sorted by path, and groups sorted by date).</li> <li>Browse and purchase infrared cameras, software, and accessories in the webshop.</li> <li>Software localized to 21 languages.</li> <li>Support for MSX (Multi-Spectral Dynamic Imaging ) Images</li> <li>Support for Sketch Images on both IR and Visual with toggling ON/OFF feature.</li> <li>Support for Same FOV ( Field of View Match )</li> <li>Display of Compass Information in Edit and in Report.</li> <li>Display of GPS Information in Edit and in Report.</li> <li>Microsoft Windows 7 (32- and 64-bit) and Windows 8 (32- and 64-bit)</li> <li>Camera update (applies to FLIR Ex, Kxx, Exx and T6xx series only).</li> </ul>	
Download	
This software is a freeware. To download, click the following link:	
<a href="http://support.flir.com/tools">http://support.flir.com/tools</a>	
Release notes	
Version	5.2
New features in version 5.2	<ul style="list-style-type: none"> <li>Support for auto-adjusting a region.</li> <li>Support for zoom.</li> <li>Various bug fixes.</li> </ul>
New features in version 5.1	<ul style="list-style-type: none"> <li>Improved import performance.</li> <li>Added support for video recording settings for FLIR Kxx series.</li> <li>Added support for importing video files from FLIR Kxx series.</li> <li>Added support for FLIR C2 camera.</li> <li>Various bug fixes.</li> </ul>



**P/N: T198584**

© 2015, FLIR Systems, Inc.  
#T198584; r. 25122; en-US

Release notes	
New features in version 5.0	<ul style="list-style-type: none"> <li>Local object parameters for measurement tools.</li> <li>Save a report in-process with the ability to edit at a later time.</li> <li>Pull-down menus for text annotations.</li> <li>Variable playback speed for recordings.</li> <li>Show or hide min./max./avg. temperature, and hot/cold markers, for areas and lines.</li> <li>Smoother display for low-resolution images.</li> <li>UltraMax image enhancement.</li> <li>Dropping support for Windows XP.</li> <li>Various bug fixes.</li> </ul>
New features in version 4.1	<ul style="list-style-type: none"> <li>Previous/next in Edit mode.</li> <li>Clone in the Library.</li> <li>Extract visual photo from a multispectral image.</li> <li>Import *.mp4, *.seq, and *.csq files from the camera.</li> <li>Playback/edit *.seq and *.csq files.</li> <li>Scale enhancement for the FLIR GF3xx series.</li> <li>Auto resize of thumbnails during importing for the FLIR T6xx series.</li> <li>Grouping/ungrouping now added.</li> <li>Various bug fixes.</li> </ul>
New features in version 4.0	<ul style="list-style-type: none"> <li>Support for the new FLIR Ex and Exx series cameras.</li> <li>Interactive quick start guide when connecting a FLIR camera.</li> <li>Improved library view.</li> <li>Support for multispectral images.</li> <li>Support for auto-oriented images.</li> <li>Various bug fixes.</li> </ul>
New features in version 3.1	<ul style="list-style-type: none"> <li>Support for FLIR K series cameras.</li> <li>Interactive quick start guide when connecting a FLIR K series camera.</li> <li>Live image streaming from FLIR K series cameras.</li> <li>PC-side configuration of FLIR K series cameras.</li> <li>New report templates for DC images only added.</li> <li>Various bug fixes.</li> </ul>
New features in version 3.0	<ul style="list-style-type: none"> <li>Add folder to library.</li> <li>Support for isotherms and color alarms</li> <li>Image description for both IR and DC.</li> <li>Export functionality (*.avi, *.csv).</li> <li>Microsoft Windows 8 (32- and 64-bit)</li> <li>New web installer</li> <li>Various bug fixes.</li> </ul>
New features in version 2.2	<ul style="list-style-type: none"> <li>Camera tab: <ul style="list-style-type: none"> <li>Logging feature in Camera Tab</li> <li>Recording and playback of SEQ files.</li> </ul> </li> <li>Various bug fixes.</li> </ul>
New features in version 2.1	<ul style="list-style-type: none"> <li>New Text Comment Template Tab: <ul style="list-style-type: none"> <li>Create, Edit and Transfer templates to and from any FLIR Camera.</li> <li>Import and Export of Templates.</li> </ul> </li> <li>Support for MSX (Multi-Spectral Dynamic Imaging ) Images</li> <li>Support for Sketch Images on both IR and Visual with toggling ON/OFF feature.</li> <li>Support for Same FOV ( Field of View Match )</li> <li>Display of Compass Information in Edit and in Report.</li> <li>Display of GPS Information in Edit and in Report. <ul style="list-style-type: none"> <li>Direct Link to Google Maps for GPS Tagged images from Report.</li> </ul> </li> <li>Support for 3x5 and 6x5 A-series cameras</li> </ul>

**P/N: T198584**

© 2015, FLIR Systems, Inc.  
#T198584; r. 25122; en-US

Release notes	
New features in version 2.0	<ul style="list-style-type: none"> <li>Camera tab: <ul style="list-style-type: none"> <li>Camera connection with FLIR UVC cameras.</li> <li>Measurement data analysis.</li> <li>Plotting.</li> <li>Snapshot saving with text annotation and plot.</li> </ul> </li> <li>Performance improvement for large reports: can now create reports and imagesheets of up to 200 pages.</li> <li>Various bug fixes.</li> </ul>
New features in version 1.3	<ul style="list-style-type: none"> <li>Import from ix series cameras.</li> <li>Add and remove a form from a group.</li> <li>Text comments are now saved in the infrared image.</li> <li>The indexing engine can create groups from IR, DC, and text annotations when indexing the paths in the watch folder.</li> <li>Arrow tool in the report toolbar.</li> <li>Reorder pages.</li> <li>Text annotations can now be edited in the report.</li> <li>New report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR).</li> <li>New sample images.</li> </ul>
New features in version 1.2 SP1	<ul style="list-style-type: none"> <li>Various bug fixes.</li> </ul>
New features in version 1.2	<ul style="list-style-type: none"> <li>Search function: <ul style="list-style-type: none"> <li>Store the five latest search criterias.</li> <li>Search in all texts in images and text annotations.</li> </ul> </li> <li>Sort function: <ul style="list-style-type: none"> <li>By date.</li> <li>Groups sorted by by path.</li> <li>Groups sorted by date.</li> </ul> </li> <li>Report editor: <ul style="list-style-type: none"> <li>Report page preview.</li> <li>Snap to grid.</li> <li>Various bug fixes.</li> </ul> </li> </ul>
New features in version 1.1 SP1	<ul style="list-style-type: none"> <li>Extension to the camera update functionality.</li> <li>Various bug fixes</li> </ul>
New features in version 1.1	<ul style="list-style-type: none"> <li>Software localized to 21 languages.</li> <li>Camera update. (Exx, T6xx)</li> <li>Option to rotate an infrared image in the infrared editor.</li> </ul>

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Digital download, or</li> <li>CD-ROM</li> </ul>
Packaging, weight	0.106 kg (0.23 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005279
UPC-12	845188005481
Country of origin	Sweden

System requirements	
Operating system	<ul style="list-style-type: none"> <li>Windows XP, 32-bit</li> <li>Windows Vista, 32-bit</li> <li>Windows 7, 32-bit</li> <li>Windows 7, 64-bit</li> <li>Windows 8, 32-bit</li> <li>Windows 8, 64-bit</li> </ul>

**P/N: T198584**

© 2015, FLIR Systems, Inc.  
#T198584; r. 25122; en-US

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm

**P/N: T198584**

© 2015, FLIR Systems, Inc.  
#T198584; r. 25122; en-US

- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

**P/N: T198584**

© 2015, FLIR Systems, Inc.  
#T198584; r. 25122; en-US

- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72001-0101; FLIR C2

**P/N: T198583**

## Copyright

© 2015, FLIR Systems, Inc.

All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: T198583

Commit: 25121

Language: en-US

Modified: 2015-04-29 09:50

Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.

27700 SW Parkway Ave.

Wilsonville, OR 97070

USA

Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

Compared to FLIR Tools, FLIR Tools+ has the following features:

- Radiometric Panorama incl. MSX
- Radiometric IR Video Recording
- Advanced Reporting

FLIR Tools/Tools+ is a software suite specifically designed to provide an easy way to update your camera and create inspection reports.

FLIR Tools+ main features:

- Manual IR/Visual Image Grouping
- Radiometric Panorama incl. MSX
- Radiometric IR Video Recording
- Advanced Reporting - Microsoft Office 2007 (32bit), and 2010 (32bit) support
- Report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR).
- Import images from your camera to your computer.
- Apply filters when searching for images.
- Search all text in images and text annotations.
- Store the five latest search criteria's.
- Lay out, move, and resize measurement tools on any infrared image.
- Create PDF imagesheets of any images of your choice.
- Add headers, footers, and logos to imagesheets.
- Create PDF reports for images of your choice.
- Add headers, footers, and logos to reports.
- Report editor (report page preview and snap to grid).
- Sort function (by date, groups sorted by path, and groups sorted by date).
- Browse and purchase infrared cameras, software, and accessories in the webshop.
- Software localized to 21 languages.
- Support for MSX (Multi-Spectral Dynamic Imaging ) Images
- Support for Sketch Images on both IR and Visual with toggling ON/OFF feature.
- Support for Same FOV ( Field of View Match )
- Display of Compass Information in Edit and in Report.
- Display of GPS Information in Edit and in Report.
- Microsoft Windows 7 (32- and 64-bit) and Windows 8 (32- and 64-bit)
- Camera update (applies to FLIR Ex, Kxx, Exx and T6xx series only).

## Download

Download a 30-day evaluation version here:

<http://support.flir.com/toolsplus>

## Release notes

Version	5.2
New features in version 5.2	<ul style="list-style-type: none"> <li>• Support for auto-adjusting a region.</li> <li>• Support for zoom.</li> <li>• Express Microsoft Word reporting (*.docx).</li> <li>• Various bug fixes.</li> </ul>

**P/N: T198583**

© 2015, FLIR Systems, Inc.  
#T198583; r. 25121; en-US

Release notes	
New features in version 5.1	<ul style="list-style-type: none"> <li>Improved import performance.</li> <li>Added support for video recording settings for FLIR Kxx series.</li> <li>Added support for importing video files from FLIR Kxx series.</li> <li>Added support for FLIR C2 camera.</li> <li>Various bug fixes.</li> </ul>
New features in version 5.0	<ul style="list-style-type: none"> <li>Local object parameters for measurement tools.</li> <li>Save a report in-process with the ability to edit at a later time.</li> <li>Pull-down menus for text annotations.</li> <li>Variable playback speed for recordings.</li> <li>Show or hide min./max./avg. temperature, and hot/cold markers, for areas and lines.</li> <li>Smoother display for low-resolution images.</li> <li>UltraMax image enhancement.</li> <li>Dropping support for Windows XP.</li> <li>Various bug fixes.</li> </ul>
New features in version 4.1	<ul style="list-style-type: none"> <li>Previous/next in Edit mode.</li> <li>Clone in the Library.</li> <li>Extract visual photo from a multispectral image.</li> <li>Import *.mp4, *.seq, and *.csq files from the camera.</li> <li>Playback/edit *.seq and *.csq files.</li> <li>Scale enhancement for the FLIR GF3xx series.</li> <li>Auto resize of thumbnails during importing for the FLIR T6xx series.</li> <li>Grouping/ungrouping now added.</li> <li>Various bug fixes.</li> </ul>
New features in version 4.0	<ul style="list-style-type: none"> <li>Support for the new FLIR Ex and Exx series cameras.</li> <li>Interactive quick start guide when connecting a FLIR camera.</li> <li>Improved library view.</li> <li>Support for multispectral images.</li> <li>Support for auto-oriented images.</li> <li>Various bug fixes.</li> </ul>
New features in version 3.1	<ul style="list-style-type: none"> <li>Support for FLIR K series cameras.</li> <li>Interactive quick start guide when connecting a FLIR K series camera.</li> <li>Live image streaming from FLIR K series cameras.</li> <li>PC-side configuration of FLIR K series cameras.</li> <li>New report templates for DC images only added.</li> <li>Various bug fixes.</li> </ul>
New features in version 3.0	<ul style="list-style-type: none"> <li>Add folder to library.</li> <li>Support for isotherms and color alarms</li> <li>Image description for both IR and DC.</li> <li>Export functionality (*.avi, *.csv).</li> <li>Microsoft Windows 8 (32- and 64-bit)</li> <li>New web installer</li> <li>Radiometric panorama with MSX images.</li> <li>Advanced reports.</li> <li>Manual grouping/ungrouping of images.</li> <li>Various bug fixes.</li> </ul>
New features in version 2.2	<ul style="list-style-type: none"> <li>Camera tab: <ul style="list-style-type: none"> <li>Logging feature in Camera Tab</li> <li>Recording and playback of SEQ files.</li> </ul> </li> <li>Various bug fixes.</li> </ul>
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>FLIR Tools+ scratchcard</li> </ul>
Packaging, weight	0.059 kg (0.13 lb.)

**P/N: T198583**

© 2015, FLIR Systems, Inc.  
#T198583; r. 25121; en-US

Shipping information	
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	73325585378 4743254001442 (Estonia plant)
UPC-12	845188005580
Country of origin	Sweden
System requirements	
Operating system	<ul style="list-style-type: none"> <li>Windows XP, 32-bit</li> <li>Windows Vista, 32-bit</li> <li>Windows 7, 32-bit</li> <li>Windows 7, 64-bit</li> <li>Windows 8, 32-bit</li> <li>Windows 8, 64-bit</li> </ul>
Software requirements	<ul style="list-style-type: none"> <li>Office 2007, 32-bit</li> <li>Office 2010, 32-bit</li> <li>Office 2013, 32-bit</li> </ul>

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)



**P/N: T198583**

© 2015, FLIR Systems, Inc.  
#T198583; r. 25121; en-US

- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens

**P/N: T198583**

© 2015, FLIR Systems, Inc.  
#T198583; r. 25121; en-US

- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 63901-0101; FLIR E4
- 63905-0501; FLIR E5
- 63902-0202; FLIR E6
- 63903-0303; FLIR E8

## P/N: DSW-10000

### Copyright

© 2015, FLIR Systems, Inc.

All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: DSW-10000

Commit: 24597

Language: en-US

Modified: 2015-04-09 13:38

Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.

27700 SW Parkway Ave.

Wilsonville, OR 97070

USA

Telephone: +1-503-498-3547

### Website

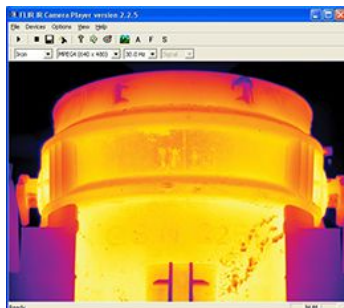
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

FLIR IR Camera Player is a PC-based remote control and viewer that you can use with cameras from FLIR Systems.

You can perform one or more of the following with FLIR IR Camera Player:

- Record a video stream from the camera.
- Save a frame from the video stream as a snapshot image (\*.bmp).
- Autofocus, focus far, and focus near.
- Autoadjust the camera image.
- Freeze the camera image.
- Save a camera image in the camera.
- Change Color palette.
- Add an image description and a text comment to an image.

You connect a camera in one of the following ways:

- Ethernet
- FireWire
- USB

### Download

This software is a freeware. To download, click the following link:

<http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=89>

### Release notes

Version	2.3.3
New features	<p>Main improvements in version 2.3.3:</p> <ul style="list-style-type: none"> <li>• Added latest device drivers (1.9.1.0).</li> <li>• Various bugfixes</li> </ul> <p>Main improvements in version 2.2.7:</p> <ul style="list-style-type: none"> <li>• Added support for FLIR Ax5 series.</li> </ul>

### System requirements

Operating system	<ul style="list-style-type: none"> <li>• Windows XP, 32-bit</li> <li>• Windows Vista, 32-bit/64-bit</li> <li>• Windows 7, 32-bit/64-bit</li> </ul>
------------------	--

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)

**P/N: DSW-10000**

© 2015, FLIR Systems, Inc.  
#DSW-10000; r. 24597; en-US

- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc

**P/N: DSW-10000**

© 2015, FLIR Systems, Inc.  
#DSW-10000; r. 24597; en-US

- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)



---

**P/N: DSW-10000**

© 2015, FLIR Systems, Inc.  
#DSW-10000; r. 24597; en-US

- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: APP-10002

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: APP-10002  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

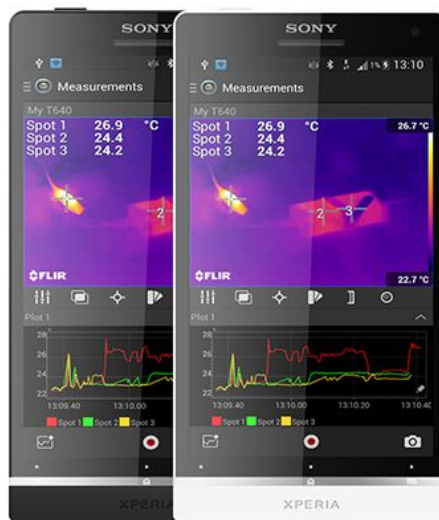
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

FLIR Tools Mobile is an intuitive Android app for analyzing, managing, and distributing infrared images.

#### Key features:

- Remote control
- MSX
- Images with sketch on DC and IR
- Images with field of view follow
- Editable text comments
- Emissivity table
- Import images from your Wi-Fi-enabled camera.
- Connect and stream infrared images from the camera.
- Connect and stream measurement data from FLIR Test & Measurement meters
- Lay out and move measurement tools on the image.
- Read out temperature measurements.
- Create and configure temporal plots based on results of measurement tools on the infrared image.
- Log measurement data and export it as a \*.csv file.
- Save a measurement scenario as a data snapshot.
- Zoom in on images.
- On the Android device, remotely take snapshots when a camera is connected.
- On the camera, take snapshots that will automatically be saved on the Android device.
- Delete images on the Android device.
- Display an image's GPS coordinates on Google Maps.
- Create and e-mail reports.
- Save images in the Android device photo library.
- Send images to FTP sites and other file-sharing services (Dropbox, Box.net, etc.).
- Display image information, e.g., object parameters, text comments, and file details.
- Play back voice comments.
- Change the level and span.
- Change general settings in the app.
- Change the palette.

### Download

The application can be downloaded from Android Market or Amazon Marketplace, see the link below.

<https://market.android.com/details?id=com.flir.viewer>

**P/N: APP-10002**

© 2015, FLIR Systems, Inc.  
#APP-10002; r. 24597; en-US

Release notes	
Version	3.4.0
New features	<p>Main improvements in version 3.4.0:</p> <ul style="list-style-type: none"> <li>• Support for *.csq files.</li> <li>• Various bug fixes.</li> </ul> <p>Main improvements in version 3.2.0:</p> <ul style="list-style-type: none"> <li>• Receive data logs from FLIR DM93.</li> <li>• Save or export data logs in new *.csv format.</li> <li>• Various bug fixes.</li> </ul> <p>Main improvements in version 3.1.0:</p> <ul style="list-style-type: none"> <li>• Added variable level of MSX alpha</li> <li>• Added Fusion Blending mode for images with possibility to adjust level</li> <li>• Stability fixes</li> <li>• Improved memory management</li> <li>• Modified internal handling of measurement results and displaying them.</li> </ul>
System requirements	
Operating system	<ul style="list-style-type: none"> <li>• Android 2.3 and later</li> </ul>

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)



**P/N: APP-10002**

© 2015, FLIR Systems, Inc.  
#APP-10002; r. 24597; en-US

- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: APP-10003

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: APP-10003  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

FLIR Tools Mobile lets professional thermographers use an iPad, iPhone, or iPod touch to see and capture live, streaming infrared video and stills from select FLIR cameras.

With FLIR Tools Mobile the camera can be stationed in one area and operated wirelessly from another – highly useful for IR inspections of energized equipment or performing IR surveys in hard-to-reach locations and harsh working environments. Streaming video and remote access also gives decision makers and others on your team a valuable opportunity to observe and collaborate in the thermal imaging process.

Using FLIR Tools Mobile, you can do one or more of the following:

- Import images from your infrared camera
- Lay out and move measurement tools on the image
- Read out temperature measurements
- Zoom in on images
- On the iPhone/iPad, remotely take snapshots when a camera is connected
- On the camera, take snapshots that will automatically be saved in the iPhone/iPad
- Delete any images on the iPhone/iPad
- Display an image's GPS coordinates on Google Maps
- Create and e-mail imagesheets
- Create and e-mail reports
- Print imagesheets and reports to any AirPrint-enabled printer
- Save images to iPhone/iPad photo library
- Send images to FTP sites and other file sharing services (Dropbox, Box.net, etc.)
- Display image information, such as object parameters, text comments, file information, etc.
- Play-back voice comments
- Change level and span
- Change general settings in the app
- Change palette

**P/N: APP-10003**

© 2015, FLIR Systems, Inc.  
#APP-10003; r. 24597; en-US

General description	
FLIR Tools Mobile lets you take control of the following features on selected cameras:	
<ul style="list-style-type: none"> <li>• Remote control of your FLIR camera.</li> <li>• Support for MSX (Multi-Spectral Dynamic Imaging) images.</li> <li>• Support for sketch images in both IR and visual with on/off toggling.</li> <li>• Support for same FOV ("Field of View Match").</li> <li>• Editable text comments.</li> <li>• Auto and manual focus</li> <li>• Level and span</li> <li>• Color palettes</li> <li>• Temperature measurement analytics</li> <li>• Spot</li> <li>• Area box</li> <li>• Circle</li> <li>• Line</li> <li>• Parameter settings</li> <li>• Emissivity</li> <li>• Reflected temperature</li> <li>• Relative humidity</li> <li>• Atmospheric temperature</li> <li>• IR and visible light image blending</li> <li>• Picture-in-picture</li> <li>• Thermal fusion</li> <li>• Image storage</li> <li>• MPEG 4 video</li> <li>• Radiometric JPEG stills</li> </ul>	
Download	
The application can be downloaded from App Store, see the link below.	
<a href="http://itunes.apple.com/app/flir-tools/id511247887?mt=8">http://itunes.apple.com/app/flir-tools/id511247887?mt=8</a>	
Release notes	
Version	1.5.0
New features	<p>Main improvements in version 1.5.0:</p> <ul style="list-style-type: none"> <li>• Updated for iOS7.</li> <li>• Improved Library.</li> </ul> <p>Main improvements in version 1.3.2:</p> <ul style="list-style-type: none"> <li>• Added remote viewer mode for T4xx and Exx series.</li> <li>• Improved support for anonymous FTP server.</li> <li>• Improved image import from photo gallery.</li> </ul> <p>Main improvements in version 1.3:</p> <ul style="list-style-type: none"> <li>• Support for fusion images.</li> <li>• Marking fusion images with the stacked icon in the library browser.</li> <li>• Switching image modes while editing fusion images.</li> <li>• Switch between fusion IR/DC and grouped images during preview.</li> <li>• Support for landscape and portrait images.</li> <li>• Image parameters can be modified only in edit mode.</li> <li>• Support for FLIR Exx-series cameras.</li> </ul>
System requirements	
Operating system	<ul style="list-style-type: none"> <li>• iOS 4.0 or later</li> </ul>
Hardware requirements	<ul style="list-style-type: none"> <li>• iPhone</li> <li>• iPad</li> <li>• iPod</li> </ul>

**Compatible with the following products**

- N/A

**P/N: T198696**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: T198696  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

FLIR ResearchIR Max 4.0 is aimed at R&D and science professionals who use thermal imaging cameras with a cooled or uncooled detectors. FLIR ResearchIR Max makes the most of a thermal imaging camera, and allows high-speed recording and advanced thermal pattern analysis. FLIR ResearchIR Max is the perfect tool for industrial R&D.

### Main features:

- Pre/post-recording.
- Mathematical processing toolbox.
- Image filtering toolbox.
- Radiometric digital detail enhancement (DDE) improves dramatically the understanding of the thermal image, while maintaining radiometric measurement accuracy.
- View, record and store images at high speed.
- Post-processing of fast thermal events.
- Generate time-temperature plots from live images or recorded sequences.
- Advanced start/stop recording conditions.
- Unlimited number of analysis functions (spot, line, area).
- File organizer.
- Zoom and pan allows a closer look.
- Multiple dockable objects for plots and statistics.
- Export images and results to bitmap, video, Excel, MATLAB or CSV formats
- Local scale gain control on measurement - automatically adjusts the contrast in a specific part of the image.

FLIR ResearchIR Max 4 in combination with a FLIR thermal imaging camera is the perfect solution for any R&D or scientific application. It will allow researchers in all fields to make the smallest of temperature differences visible and to thoroughly analyze the thermal process in real-time.

## Download

Download your copy of FLIR ResearchIR Max 4 here (hardware security device required to run the software):

<http://support.flir.com/rir4>

## Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• FLIR ResearchIR Max 4 download card.</li> <li>• Hardware security device.</li> </ul>
Packaging, weight	0.066 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558007266
UPC-12	845188007638
Country of origin	Sweden

## Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)

**P/N: T198696**

© 2015, FLIR Systems, Inc.  
#T198696; r. 24597; en-US

- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 42901-1001; FLIR A305sc
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens

**P/N: T198696**

© 2015, FLIR Systems, Inc.  
#T198696; r. 24597; en-US

- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

**P/N: T198697**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: T198697  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
FLIR ResearchIR Max + HSDR 4 contains all the features of FLIR ResearchIR Max 4, plus support for FLIR High Speed Data Recorder (HSDR) products.	
Main features:	
<ul style="list-style-type: none"> <li>• Pre/post-recording.</li> <li>• Mathematical processing toolbox.</li> <li>• Image filtering toolbox.</li> <li>• Radiometric digital detail enhancement (DDE) improves dramatically the understanding of the thermal image, while maintaining radiometric measurement accuracy.</li> <li>• View, record and store images at high speed.</li> <li>• Post-processing of fast thermal events.</li> <li>• Generate time-temperature plots from live images or recorded sequences.</li> <li>• Advanced start/stop recording conditions.</li> <li>• Unlimited number of analysis functions (spot, line, area).</li> <li>• File organizer.</li> <li>• Zoom and pan allows a closer look.</li> <li>• Multiple dockable objects for plots and statistics.</li> <li>• Export images and results to bitmap, video, Excel, MATLAB or CSV formats</li> <li>• Local scale gain control on measurement - automatically adjusts the contrast in a specific part of the image.</li> </ul>	
FLIR ResearchIR Max + HSDR 4 in combination with a FLIR thermal imaging camera is the perfect solution for any R&D or scientific application. It will allow researchers in all fields to make the smallest of temperature differences visible and to thoroughly analyze the thermal process in real-time.	
Download	
Download your copy of FLIR ResearchIR Max + HSDR 4 here (hardware security device required to run the software):	
<a href="http://support.flir.com/rir4">http://support.flir.com/rir4</a>	
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• FLIR ResearchIR Max + HSDR 4 download card.</li> <li>• Hardware security device.</li> </ul>
Packaging, weight	0.068 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558007280
UPC-12	845188007652
Country of origin	Sweden

## Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)

**P/N: T198697**

© 2015, FLIR Systems, Inc.  
#T198697; r. 24597; en-US

- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 42901-1001; FLIR A305sc
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens



**P/N: T198697**

© 2015, FLIR Systems, Inc.  
#T198697; r. 24597; en-US

- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

**P/N: T199817**

**Copyright**

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

**Document identity**

Publ. No.: T199817  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

**Corporate Headquarters**

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

**Website**

<http://www.flir.com>

**Customer support**

<http://support.flir.com>

**Disclaimer**

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



**General description**

The Extended Warranty Package covers parts and labour for your IR camera, consumables not included.

FLIR Systems warrants its products to be free from defects caused by faulty material or poor workmanship, for a period specified above. NO PRODUCT IS WARRANTED TO BE MERCHANTABLE OR FIT FOR ANY PARTICULAR USE OR APPLICATION. The warranty is void if the buyer damages the item due to misuse, abuse, modification, processing, or integration with other items. FLIR Systems' maximum liability under this warranty is limited to the obligation to replace or, at its sole option, to credit Buyer's account up to the purchase price.

**Download**

Contact info can be found at:

<http://support.flir.com>

**Compatible with the following products**

- N/A

## P/N: T199830

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T199830  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

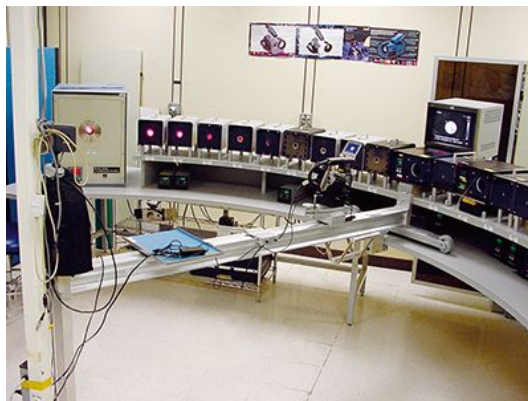
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

General Maintenance package offers a complete 14 points inspection and calibration service (for one lens combination). Shipping cost not included.

#### 14-point inspection program:

- Perform a complete operational check.
- Fusion calibration and laser alignment, when applicable.
- Verify all internal cable and PCB connections.
- Clean the viewfinder and check the optics.
- Upgrade the internal camera software to the latest revisions.
- Perform minor repairs.
- Verify and/or re-equalize as needed each temperature range for image uniformity.
- Verify standard lens calibration (optional: other or specially engineered lenses).
- Verify ambient temperature compensation as needed.
- Recalibration to ensure factory specifications are met.
- Calibrate temperature ranges up to +1500°C, when applicable.
- Perform a quality-approved acceptance test procedure.
- Provide a calibration label with the next due date.
- Provide a calibration certificate (optional: extended calibration certificate with measured values).

### Download

Contact info can be found at:

<http://support.flir.com>

### Compatible with the following products

- N/A

## P/N: ITC-FEE-0120

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-FEE-0120  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Certification DIN EN ISO 9712 TT Category 1	
Course information	
Available languages	DACH only
Course details	
Duration	1 day

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)

**P/N: ITC-FEE-0120**

© 2015, FLIR Systems, Inc.

#ITC-FEE-0120; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-CER-6101

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-6101  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
DIN EN ISO 9712 TT Category 1 Certification course, excl. Certification, 1 pers.	
Course information	
Available languages	DACH only
Course details	
Duration	5 days

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)

---

**P/N: ITC-CER-6101**

© 2015, FLIR Systems, Inc.

#ITC-CER-6101; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5



## P/N: ITC-CER-6109

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-6109  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
DIN EN ISO 9712 TT Category 1 Certification course, excl. Certification, group up to 10 pers.	
Course information	
Available languages	DACH only
Course details	
Duration	5 days

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)



---

**P/N: ITC-CER-6109**

© 2015, FLIR Systems, Inc.

#ITC-CER-6109; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-ADV-3011

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3011  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course bridges the gap between IR thermography, background science and application theory. The participant will learn the physical concepts of heat transfer and apply them together with relevant building science. After the course, the participant will be able to do a qualified building inspection on the base of existing laws, standards, and regulations.

Note: This course refers mainly to European building standards. Please consult ITC before selling it in other countries.

### Content

- Introduction and refresher of IR basics
- Thermal transfer and wall structures
- Insulating materials
- Humidity, moisture, and the dew point
- Air leaks, pressure profiles, and air permeability
- Survey methodology

### Labs

- Outside inspection
- Air permeability test (with Blower Door)
- Reporting

### Course information

Available languages	English
Target group	<ul style="list-style-type: none"> <li>• Professional users in building applications who want to become experts in Building Thermography.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Knows how to operate the camera</li> <li>• Knows how to report</li> <li>• Has a background in a building profession, but rather moderate experience in IR or has experience in another IR application field but rather moderate knowledge in building science</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Valid Level 1 thermography certificate</li> <li>• IR related education and experience</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Knowledge of building techniques</li> <li>• Bring own PC for calculations and exercises</li> </ul>

**P/N: ITC-ADV-3011**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3011; r. 23306; en-US

Course details	
Duration	3 days (24 hours)
Structure	Theory takes place in the mornings, practical labs, calculations, and software exercises are scheduled for the afternoons.
Exam	A final test (20 multiple choice questions) will be written on the 3rd day in the afternoon. In connection, the correct answers will be discussed by the instructor and the participants.
Course fee includes	<ul style="list-style-type: none"><li>• Tuition by ITC licensed instructor</li><li>• Training material in printed format</li><li>• Refreshments</li><li>• Diploma of attendance</li><li>• Attendance of 1 person</li><li>• Might include more, such as lunch, depending on location and organizing entity</li></ul>
Course organization	
ITC	The Advanced Building Course is offered worldwide by ITC as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC.
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach the Advanced Building Course.

**Compatible with the following products**

- N/A

## P/N: ITC-ADV-3019

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3019  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course bridges the gap between IR thermography, background science and application theory. The participant will learn the physical concepts of heat transfer and apply them together with relevant building science. After the course, the participant will be able to do a qualified building inspection on the base of existing laws, standards, and regulations.

Note: This course refers mainly to European building standards. Please consult ITC before selling it in other countries.

### Content

- Introduction and refresher of IR basics
- Thermal transfer and wall structures
- Insulating materials
- Humidity, moisture, and the dew point
- Air leaks, pressure profiles, and air permeability
- Survey methodology

### Labs

- Outside inspection
- Air permeability test (with Blower Door)
- Reporting

### Course information

Available languages	English
Target group	<ul style="list-style-type: none"> <li>• Professional users in building applications who want to become experts in Building Thermography.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Knows how to operate the camera</li> <li>• Knows how to report</li> <li>• Has a background in a building profession, but rather moderate experience in IR or has experience in another IR application field but rather moderate knowledge in building science</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Valid Level 1 thermography certificate</li> <li>• IR related education and experience</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Knowledge of building techniques</li> <li>• Bring own PC for calculations and exercises</li> </ul>

**P/N: ITC-ADV-3019**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3019; r. 23306; en-US

Course details	
Duration	3 days (24 hours)
Structure	Theory takes place in the mornings, practical labs, calculations, and software exercises are scheduled for the afternoons.
Exam	A final test (20 multiple choice questions) will be written on the 3rd day in the afternoon. In connection, the correct answers will be discussed by the instructor and the participants.
Course fee includes	<ul style="list-style-type: none"><li>• Tuition by ITC licensed instructor</li><li>• Training material in printed format</li><li>• Refreshments</li><li>• Diploma of attendance</li><li>• Attendance of a group up to 10 persons</li><li>• Might include more, such as lunch, instructor's travel expenses, etc. depending on location and organizing entity</li></ul>
Course organization	
ITC	The Advanced Building Course is offered worldwide by ITC as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC.
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach the Advanced Building Course.

**Compatible with the following products**

- N/A

## P/N: ITC-ADV-3021

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3021  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This interdisciplinary course bridges the gap between IR thermography, background science and application theory. Being an overview course it deals with three main application fields of thermography: electrical, industrial, and building. For every application the participant will learn about the specific theory, typical faults, and how to detect them with a thermography camera. The student will also learn about the basics of condition monitoring, and maintenance.

Examples and case studies from the real world illustrate the course content and are discussed with the participants. Participants will be trained in discovering and identifying typical faults by typical thermal patterns.

### Content

- Introduction
- Electrical Applications (current, voltage, resistance, electrical systems, Ohm's law, some important properties of materials, typical faults, surveying methodology and criteria, safety, voltage limits)
- Industrial Applications (bearings, pumps, gears, belts, misalignment and couplings, gaskets, seals, rings, glands, steam traps, furnaces)
- Building Applications (definition of the building envelope, steady state thermal transfer in a building envelope, transient thermal transfer in a building envelope, applications)

### Course information

Available languages	
English	
Target group	
<ul style="list-style-type: none"> <li>• Professional thermographers holding a Level 1 or a Level 2 certificate and</li> <li>• with interest in increasing their knowledge of different thermographic applications, and their limitations or</li> <li>• with a special interest in condition monitoring of machines</li> </ul>	
Typical student	
<ul style="list-style-type: none"> <li>• Knows how to operate the camera</li> <li>• Knows how to report</li> <li>• Works in the industry with e.g. maintenance and condition monitoring or is a consultant</li> </ul>	
Pre-requisites	
<ul style="list-style-type: none"> <li>• Valid Level 1 thermography certificate</li> <li>• IR related education and experience</li> </ul>	

**P/N: ITC-ADV-3021**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3021; r. 23306; en-US

Course details	
Duration	3 days (24 hours)
Structure	The course is divided into the three parts: Electrical Applications, Industrial Applications, and Building Applications. Theory sessions and case studies including interactive discussions alternate.
Exam	A final exam (30 multiple choice questions) will be written on the 3d day in the afternoon. In connection, the correct answers will be discussed by the instructor and the participants.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Attendance of 1 person</li> <li>• Might include more, such as lunch, depending on location and organizing entity</li> </ul>
Course organization	
ITC	The Advanced General Thermography Course is offered worldwide by ITC as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary.
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Advanced General Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)

**P/N: ITC-ADV-3021**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3021; r. 23306; en-US

- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC



---

**P/N: ITC-ADV-3021**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3021; r. 23306; en-US

- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-ADV-3029

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3029  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This interdisciplinary course bridges the gap between IR thermography, background science and application theory. Being an overview course it deals with three main application fields of thermography: electrical, industrial, and building. For every application the participant will learn about the specific theory, typical faults, and how to detect them with a thermography camera. The student will also learn about the basics of condition monitoring, and maintenance.

Examples and case studies from the real world illustrate the course content and are discussed with the participants. Participants will be trained in discovering and identifying typical faults by typical thermal patterns.

### Content

- Introduction
- Electrical Applications (current, voltage, resistance, electrical systems, Ohm's law, some important properties of materials, typical faults, surveying methodology and criteria, safety, voltage limits)
- Industrial Applications (bearings, pumps, gears, belts, misalignment and couplings, gaskets, seals, rings, glands, steam traps, furnaces)
- Building Applications (definition of the building envelope, steady state thermal transfer in a building envelope, transient thermal transfer in a building envelope, applications)

### Course information

Available languages	
English	
Target group	
<ul style="list-style-type: none"> <li>• Professional thermographers holding a Level 1 or a Level 2 certificate and</li> <li>• with interest in increasing their knowledge of different thermographic applications, and their limitations or</li> <li>• with a special interest in condition monitoring of machines</li> </ul>	
Typical student	
<ul style="list-style-type: none"> <li>• Knows how to operate the camera</li> <li>• Knows how to report</li> <li>• Works in the industry with e.g. maintenance and condition monitoring or is a consultant</li> </ul>	
Pre-requisites	
<ul style="list-style-type: none"> <li>• Valid Level 1 thermography certificate</li> <li>• IR related education and experience</li> </ul>	

**P/N: ITC-ADV-3029**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3029; r. 23306; en-US

Course details	
Duration	3 days (24 hours)
Structure	The course is divided into the three parts: Electrical Applications, Industrial Applications, and Building Applications. Theory sessions and case studies including interactive discussions alternate.
Exam	A final exam (30 multiple choice questions) will be written on the 3d day in the afternoon. In connection, the correct answers will be discussed by the instructor and the participants.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Attendance of a group up to 10 persons</li> <li>• Might include more, such as lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	The Advanced General Thermography Course is offered worldwide by ITC as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary.
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Advanced General Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)

**P/N: ITC-ADV-3029**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3029; r. 23306; en-US

- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL

---

**P/N: ITC-ADV-3029**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3029; r. 23306; en-US

- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-CON-1001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CON-1001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

ITC conference fee

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-CON-1001**

© 2015, FLIR Systems, Inc.

#ITC-CON-1001; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-CON-1001**

© 2015, FLIR Systems, Inc.

#ITC-CON-1001; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5



## P/N: ITC-EXP-0511

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-0511  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
ITC Getting Started with Thermography - attendance, 1 pers.	
Course information	
Available languages	DE, FR, IT, NL, SE
Course details	
Duration	4 hours

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)



---

**P/N: ITC-EXP-0511**

© 2015, FLIR Systems, Inc.

#ITC-EXP-0511; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-EXP-0521

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-0521  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

ITC Getting Started with Thermography (evening or weekend) - attendance, 1 pers.

### Course information

Available languages	DE, FR, IT, NL, SE
---------------------	--------------------

### Course details

Duration	4 hours
----------	---------

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)

---

**P/N: ITC-EXP-0521**

© 2015, FLIR Systems, Inc.

#ITC-EXP-0521; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-EXP-1021

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1021  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
An on-site training can be customized upon your needs. The participants will learn about IR thermography, inspections, measurements, applications, and reporting corresponding to the level needed for performing measurements and inspection in their working environment. The trainer will give useful advice on how to best implement IR thermography in your business.	
This partnumber is reserved for adding additional students to an on site class.	
Content	
<ul style="list-style-type: none"> <li>An on-site course can be any course, from a 1-day introduction to general thermography, over a customized application course to a complete certification course.</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Portable classroom labs</li> <li>Field training on the site in agreement with the customer</li> </ul>	
Course information	
Available languages	English, Dutch, German, French, Italian, Spanish, Swedish, other languages upon request
Target group	<ul style="list-style-type: none"> <li>Employees of a company or certain departments who would like to minimize travel costs and receive the training directly on their daily working site.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>
Course details	
Duration	Customized or according to the kind of course the in-house training is equivalent to.
Structure	Theory, camera handling, demos, practical labs and field training alternate.

**P/N: ITC-EXP-1021**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1021; r. 23306; en-US

Course details	
Exam	Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> </ul>
Course organization	
ITC	ITC In-house courses are offered worldwide by ITC and partners as listed. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	ITC In-house courses are lectured by ITC qualified instructors with experience in the relevant fields of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm

**P/N: ITC-EXP-1021**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1021; r. 23306; en-US

- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°

**P/N: ITC-EXP-1021**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1021; r. 23306; en-US

- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display



## P/N: ITC-EXP-1029

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1029  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
An on-site training can be customized upon your needs. The participants will learn about IR thermography, inspections, measurements, applications, and reporting corresponding to the level needed for performing measurements and inspection in their working environment. The trainer will give useful advice on how to best implement IR thermography in your business.	
Content	
<ul style="list-style-type: none"> <li>An on-site course can be any course, from a 1-day introduction to general thermography, over a customized application course to a complete certification course.</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Portable classroom labs</li> <li>Field training on the site in agreement with the customer</li> </ul>	
Course information	
Available languages	English, Dutch, German, French, Italian, Spanish, Swedish, other languages upon request
Target group	<ul style="list-style-type: none"> <li>Employees of a company or certain departments who would like to minimize travel costs and receive the training directly on their daily working site.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>
Course details	
Duration	Customized or according to the kind of course the in-house training is equivalent to.
Structure	Theory, camera handling, demos, practical labs and field training alternate.
Exam	Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.

**P/N: ITC-EXP-1029**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1029; r. 23306; en-US

Course details	
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> </ul>
Note	Course fee does not include cost for instructor's travelling or lodging. When organized at the customers' site, the customer is responsible for providing a suitable classroom and preferably also refreshments/lunch.
Course organization	
ITC	ITC In-house courses are offered worldwide by ITC and partners as listed. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	ITC In-house courses are lectured by ITC qualified instructors with experience in the relevant fields of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)

**P/N: ITC-EXP-1029**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1029; r. 23306; en-US

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL

**P/N: ITC-EXP-1029**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1029; r. 23306; en-US

- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-CER-5105

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5105  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 1 certified thermographer. The participant will learn about the basics of infrared, how to operate the camera under different conditions and for various purposes, how to do an appropriate judgement of the measurement situation in the field and how to identify potential error sources. After the class, the participant will be able to do IR inspections following written guidelines and to report the result of this inspection.

This partnumber is reserved for adding additional students to a level 1 on site class.

### Content

- Introduction to Thermography
- Camera Operation
- Basic physics of heat
- Basic physics of infrared
- Thermal pattern recognition and IR applications
- IR temperature measurement techniques
- Qualitative and quantitative thermography
- Inspection routines and reporting

### Student presentations

During the seminar, students will generate a small case study based on the lab exercises to be presented to the class.

### Labs

- Camera handling
- Level and Span
- Conduction pattern
- Forced convection
- Direct and indirect thermal measurement
- Thermal capacity
- Steady state and transient heat flow
- Evaporation and condensation
- Electrical application
- Emissivity and Reflected apparent temperature
- Spatial resolution
- Location and temperature measurement of a hot/cold spot
- Image transfer to the computer

**P/N: ITC-CER-5105**

© 2015, FLIR Systems, Inc.

#ITC-CER-5105; r. 23306; en-US

Course information	
Available languages	Chinese, Danish, Dutch, English, Finish, French, German, Greek, Hebrew, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (bra.), Romanian, Russian, Serbo-Croatian, Spanish, Swedish, Thai
Target group	<ul style="list-style-type: none"> <li>Practical user</li> <li>This course is designed for beginners in thermography with some experience in camera handling and limited IR knowledge, who want to take their first step to become a professional thermographer and want to qualify as a Level 1 certified thermographer.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>having already some basic experience with IR thermography,</li> <li>knowing the basic functions of the camera,</li> <li>who wants to become a certified thermographer in order to gain a competitive advantage or who needs the certifications because of legal reasons or company internal regulations.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Be familiar with the basic operation of an infrared camera</li> <li>Have the recommended experience within thermography according to relevant standards</li> </ul>

Course details	
Duration	35 – 40 hours
Structure	Theory and camera practice (hands-on) alternate every day, additional labs and software exercises at some days.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>Attendance of 1 person</li> <li>Might include more, such as lunch, depending on location and organizing entity</li> </ul>
Note	Only for non-EURO, non-SEK, non NOK, non- £, -non CHF countries

Course organization	
ITC	The Level 1 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)

**P/N: ITC-CER-5105**

© 2015, FLIR Systems, Inc.

#ITC-CER-5105; r. 23306; en-US

- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc

**P/N: ITC-CER-5105**

© 2015, FLIR Systems, Inc.

#ITC-CER-5105; r. 23306; en-US

- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display



## P/N: ITC-CER-5101

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5101  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 1 certified thermographer. The participant will learn about the basics of infrared, how to operate the camera under different conditions and for various purposes, how to do an appropriate judgement of the measurement situation in the field and how to identify potential error sources. After the class, the participant will be able to do IR inspections following written guidelines and to report the result of this inspection.

### Content

- Introduction to Thermography
- Camera Operation
- Basic physics of heat
- Basic physics of infrared
- Thermal pattern recognition and IR applications
- IR temperature measurement techniques
- Qualitative and quantitative thermography
- Inspection routines and reporting

### Student presentations

During the seminar, students will generate a small case study based on the lab exercises to be presented to the class.

### Labs

- Camera handling
- Level and Span
- Conduction pattern
- Forced convection
- Direct and indirect thermal measurement
- Thermal capacity
- Steady state and transient heat flow
- Evaporation and condensation
- Electrical application
- Emissivity and Reflected apparent temperature
- Spatial resolution
- Location and temperature measurement of a hot/cold spot
- Image transfer to the computer

**P/N: ITC-CER-5101**

© 2015, FLIR Systems, Inc.

#ITC-CER-5101; r. 23306; en-US

Course information	
Available languages	Chinese, Danish, Dutch, English, Finish, French, German, Greek, Hebrew, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (bra.), Romanian, Russian, Serbo-Croatian, Spanish, Swedish, Thai
Target group	<ul style="list-style-type: none"> <li>Practical user</li> <li>This course is designed for beginners in thermography with some experience in camera handling and limited IR knowledge, who want to take their first step to become a professional thermographer and want to qualify as a Level 1 certified thermographer.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>having already some basic experience with IR thermography,</li> <li>knowing the basic functions of the camera,</li> <li>who wants to become a certified thermographer in order to gain a competitive advantage or who needs the certifications because of legal reasons or company internal regulations.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Be familiar with the basic operation of an infrared camera</li> <li>Have the recommended experience within thermography according to relevant standards</li> </ul>

Course details	
Duration	35 – 40 hours
Structure	Theory and camera practice (hands-on) alternate every day, additional labs and software exercises at some days.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>Attendance of 1 person</li> <li>Might include more, such as lunch, depending on location and organizing entity</li> </ul>

Course organization	
ITC	The Level 1 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)

**P/N: ITC-CER-5101**

© 2015, FLIR Systems, Inc.

#ITC-CER-5101; r. 23306; en-US

- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)

**P/N: ITC-CER-5101**

© 2015, FLIR Systems, Inc.

#ITC-CER-5101; r. 23306; en-US

- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-CER-5109

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5109  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 1 certified thermographer. The participant will learn about the basics of infrared, how to operate the camera under different conditions and for various purposes, how to do an appropriate judgement of the measurement situation in the field and how to identify potential error sources. After the class, the participant will be able to do IR inspections following written guidelines and to report the result of this inspection.

### Content

- Introduction to Thermography
- Camera Operation
- Basic physics of heat
- Basic physics of infrared
- Thermal pattern recognition and IR applications
- IR temperature measurement techniques
- Qualitative and quantitative thermography
- Inspection routines and reporting

### Student presentations

During the seminar, students will generate a small case study based on the lab exercises to be presented to the class.

### Labs

- Camera handling
- Level and Span
- Conduction pattern
- Forced convection
- Direct and indirect thermal measurement
- Thermal capacity
- Steady state and transient heat flow
- Evaporation and condensation
- Electrical application
- Emissivity and Reflected apparent temperature
- Spatial resolution
- Location and temperature measurement of a hot/cold spot
- Image transfer to the computer

**P/N: ITC-CER-5109**

© 2015, FLIR Systems, Inc.

#ITC-CER-5109; r. 23306; en-US

Course information	
Available languages	Chinese, Danish, Dutch, English, Finish, French, German, Greek, Hebrew, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (bra.), Romanian, Russian, Serbo-Croatian, Spanish, Swedish, Thai
Target group	<ul style="list-style-type: none"> <li>• Practical user</li> <li>• This course is designed for beginners in thermography with some experience in camera handling and limited IR knowledge, who want to take their first step to become a professional thermographer and want to qualify as a Level 1 certified thermographer.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>• having already some basic experience with IR thermography,</li> <li>• knowing the basic functions of the camera,</li> <li>• who wants to become a certified thermographer in order to gain a competitive advantage or who needs the certifications because of legal reasons or company internal regulations.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Be familiar with the basic operation of an infrared camera</li> <li>• Have the recommended experience within thermography according to relevant standards</li> </ul>

Course details	
Duration	35 – 40 hours
Structure	Theory and camera practice (hands-on) alternate every day, additional labs and software exercises at some days.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>• Attendance of a group up to 10 persons</li> <li>• Might include more, such as lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>

Course organization	
ITC	The Level 1 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)

**P/N: ITC-CER-5109**

© 2015, FLIR Systems, Inc.

#ITC-CER-5109; r. 23306; en-US

- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310

**P/N: ITC-CER-5109**

© 2015, FLIR Systems, Inc.

#ITC-CER-5109; r. 23306; en-US

- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display



## P/N: ITC-CER-5205

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5205  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This course prepares the student for qualification as a category 2 certified thermographer. The participant will learn about topics in infrared thermography to increase the knowledge about infrared physics, heat science, infrared measurement equipment and its application. As a Level 2 thermographer the participant shall provide guidance to category 1 personnel in the areas of equipment selection, techniques, limitations, data analysis, corrective actions and reporting.	
This partnumber is reserved for adding additional students to a level 2 on site class.	
Content	
<ul style="list-style-type: none"> <li>Thermal science</li> <li>Heat transfer</li> <li>Temperature measurement</li> <li>Infrared science</li> <li>IR equipment and applications</li> </ul>	
Student presentations	
During the seminar, students shall present a prepared case study to the class. The maximum duration (excl. discussion) should be 7 minutes and the maximum number of 7 slides should not be exceeded.	
Labs (Note: Labs marked "(M)" are mandatory)	
<ul style="list-style-type: none"> <li>Newton's law (class lab) (M)</li> <li>Advanced emissivity measurement (M)</li> <li>Variation of emissivity with the angle (M)</li> <li>Transient thermal transfer</li> <li>Indirect power measurement (M)</li> <li>IR-window transmission (M)</li> <li>Slit Response Function</li> <li>Hole Response Function (M)</li> <li>Parallel circuits</li> </ul>	
Course information	
Available languages	Dutch, English, German, French, Italian, Portuguese (bra.), Spanish, Swedish
Target group	<ul style="list-style-type: none"> <li>Professional user</li> <li>This course is designed for thermographers holding a Level 1 certificate, who want to increase their knowledge about IR thermography and who want to qualify as a Level 2 certified thermographer.</li> </ul>

**P/N: ITC-CER-5205**

© 2015, FLIR Systems, Inc.

#ITC-CER-5205; r. 23306; en-US

Course information	
Typical student	<ul style="list-style-type: none"> <li>A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>having several months of professional experience within thermography,</li> <li>versed in camera operation and reporting,</li> <li>holding a Level 1 certificate,</li> <li>who needs the Level 2 Certification for guidance and supervision of other thermographers or is interested in deeper understanding of IR thermography.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Valid Level 1 thermography certificate,</li> <li>Recommended experience within thermography according to relevant standards,</li> <li>Prepared case study to be presented at the Level 2 course and submitted towards qualification at course closing.</li> </ul>

Course details	
Duration	40 hours
Structure	Theory, camera practice (hands-on), and prepared case studies alternate every day.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>Attendance of 1 person</li> <li>Might include more, such as lunch, depending on location and organizing entity.</li> </ul>
Note	Only for non-EURO, non-SEK, non NOK, non- £, -non CHF countries

Course organization	
ITC	The Level 2 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in T560393 Courses offered by ITC partners. Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)

**P/N: ITC-CER-5205**

© 2015, FLIR Systems, Inc.

#ITC-CER-5205; r. 23306; en-US

- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°

**P/N: ITC-CER-5205**

© 2015, FLIR Systems, Inc.

#ITC-CER-5205; r. 23306; en-US

- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-CER-5201

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5201  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 2 certified thermographer. The participant will learn about topics in infrared thermography to increase the knowledge about infrared physics, heat science, infrared measurement equipment and its application. As a Level 2 thermographer the participant shall provide guidance to category 1 personnel in the areas of equipment selection, techniques, limitations, data analysis, corrective actions and reporting.

#### Content

- Thermal science
- Heat transfer
- Temperature measurement
- Infrared science
- IR equipment and applications

#### Student presentations

During the seminar, students shall present a prepared case study to the class. The maximum duration (excl. discussion) should be 7 minutes and the maximum number of 7 slides should not be exceeded.

#### Labs (Note: Labs marked "(M)" are mandatory)

- Newton's law (class lab) (M)
- Advanced emissivity measurement (M)
- Variation of emissivity with the angle (M)
- Transient thermal transfer
- Indirect power measurement (M)
- IR-window transmission (M)
- Slit Response Function
- Hole Response Function (M)
- Parallel circuits

### Course information

#### Available languages

Dutch, English, German, French, Italian, Portuguese (bra.), Spanish, Swedish

#### Target group

- Professional user
- This course is designed for thermographers holding a Level 1 certificate, who want to increase their knowledge about IR thermography and who want to qualify as a Level 2 certified thermographer.

**P/N: ITC-CER-5201**

© 2015, FLIR Systems, Inc.

#ITC-CER-5201; r. 23306; en-US

Course information	
Typical student	<ul style="list-style-type: none"> <li>A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>having several months of professional experience within thermography,</li> <li>versed in camera operation and reporting,</li> <li>holding a Level 1 certificate,</li> <li>who needs the Level 2 Certification for guidance and supervision of other thermographers or is interested in deeper understanding of IR thermography.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Valid Level 1 thermography certificate,</li> <li>Recommended experience within thermography according to relevant standards,</li> <li>Prepared case study to be presented at the Level 2 course and submitted towards qualification at course closing.</li> </ul>
Course details	
Duration	40 hours
Structure	Theory, camera practice (hands-on), and prepared case studies alternate every day.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>Attendance of 1 person</li> <li>Might include more, such as lunch, depending on location and organizing entity.</li> </ul>
Course organization	
ITC	The Level 2 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in T560393 Courses offered by ITC partners. Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)

**P/N: ITC-CER-5201**

© 2015, FLIR Systems, Inc.

#ITC-CER-5201; r. 23306; en-US

- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°

**P/N: ITC-CER-5201**

© 2015, FLIR Systems, Inc.

#ITC-CER-5201; r. 23306; en-US

- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°



## P/N: ITC-CER-5209

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5209  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 2 certified thermographer. The participant will learn about topics in infrared thermography to increase the knowledge about infrared physics, heat science, infrared measurement equipment and its application. As a Level 2 thermographer the participant shall provide guidance to category 1 personnel in the areas of equipment selection, techniques, limitations, data analysis, corrective actions and reporting.

#### Content

- Thermal science
- Heat transfer
- Temperature measurement
- Infrared science
- IR equipment and applications

#### Student presentations

During the seminar, students shall present a prepared case study to the class. The maximum duration (excl. discussion) should be 7 minutes and the maximum number of 7 slides should not be exceeded.

#### Labs (Note: Labs marked "(M)" are mandatory)

- Newton's law (class lab) (M)
- Advanced emissivity measurement (M)
- Variation of emissivity with the angle (M)
- Transient thermal transfer
- Indirect power measurement (M)
- IR-window transmission (M)
- Slit Response Function
- Hole Response Function (M)
- Parallel circuits

### Course information

#### Available languages

Dutch, English, German, French, Italian, Portuguese (bra.), Spanish, Swedish

#### Target group

- Professional user
- This course is designed for thermographers holding a Level 1 certificate, who want to increase their knowledge about IR thermography and who want to qualify as a Level 2 certified thermographer.

**P/N: ITC-CER-5209**

© 2015, FLIR Systems, Inc.

#ITC-CER-5209; r. 23306; en-US

Course information	
Typical student	<ul style="list-style-type: none"> <li>A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>having several months of professional experience within thermography,</li> <li>versed in camera operation and reporting,</li> <li>holding a Level 1 certificate,</li> <li>who needs the Level 2 Certification for guidance and supervision of other thermographers or is interested in deeper understanding of IR thermography.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Valid Level 1 thermography certificate,</li> <li>Recommended experience within thermography according to relevant standards,</li> <li>Prepared case study to be presented at the Level 2 course and submitted towards qualification at course closing.</li> </ul>
Course details	
Duration	40 hours
Structure	Theory, camera practice (hands-on), and prepared case studies alternate every day.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as lunch, instructor's travel expenses, etc. depending on location and organizing entity.</li> </ul>
Course organization	
ITC	The Level 2 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in T560393 Courses offered by ITC partners. Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)

**P/N: ITC-CER-5209**

© 2015, FLIR Systems, Inc.

#ITC-CER-5209; r. 23306; en-US

- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°

**P/N: ITC-CER-5209**

© 2015, FLIR Systems, Inc.

#ITC-CER-5209; r. 23306; en-US

- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-EXP-2019

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2019  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course gives a general introduction to IR thermography and an overview on its specific use for the inspection of buildings. It aims at giving you clues on what you can do with your camera.

During the first day, you learn the basics of thermography and how to use your camera the best way. The second day you will start with a brief reminder of thermal transfers before you learn about the building envelope, important physical parameters and typical faults. Emphasis is put on case studies, selected from the field.

### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- IR Camera handling
- Basics of heat transfer
- The building envelope
- Important physical parameters
- Major anomalies
- Thermal patterns
- Application guidelines
- Data analysis and reports

### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement
- Building application labs

### Course information

Available languages	English, French, German, Swedish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in IR thermography and building applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person from the building sector</li> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> <li>• Students and pupils with thermography and building application related projects</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>



## ITC Short course building thermography - inclusive 10 pers. (2 days)

### P/N: ITC-EXP-2019

© 2015, FLIR Systems, Inc.

#ITC-EXP-2019; r. 23306; en-US

Course details	
Duration	2 days
Structure	Theory, camera handling, demos and practical labs alternate.
Exam	None
Course fee includes	<ul style="list-style-type: none"><li>• Tuition by qualified ITC instructor</li><li>• Training material in printed format</li><li>• Diploma of attendance</li><li>• Attendance of a group up to 10 persons</li><li>• Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li></ul>
Course organization	
ITC	The "ITC Short Course Building Thermography" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Building Thermography" is lectured by qualified ITC instructors with special experience in the field of building applications.

### Compatible with the following products

- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-2011

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2011  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course gives a general introduction to IR thermography and an overview on its specific use for the inspection of buildings. It aims at giving you clues on what you can do with your camera.

During the first day, you learn the basics of thermography and how to use your camera the best way. The second day you will start with a brief reminder of thermal transfers before you learn about the building envelope, important physical parameters and typical faults. Emphasis is put on case studies, selected from the field.

### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- IR Camera handling
- Basics of heat transfer
- The building envelope
- Important physical parameters
- Major anomalies
- Thermal patterns
- Application guidelines
- Data analysis and reports

### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement
- Building application labs

### Course information

Available languages	English, French, German, Swedish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in IR thermography and building applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person from the building sector</li> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> <li>• Students and pupils with thermography and building application related projects</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>



**P/N: ITC-EXP-2011**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2011; r. 23306; en-US

Course details	
Duration	2 days
Structure	Theory, camera handling, demos and practical labs alternate.
Exam	None
Course fee includes	<ul style="list-style-type: none"><li>• Tuition by qualified ITC instructor</li><li>• Training material in printed format</li><li>• Diploma of attendance</li><li>• Might include more, such as refreshments or lunch, depending on location and organizing entity</li></ul>
Course organization	
ITC	The "ITC Short Course Building Thermography" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Building Thermography" is lectured by qualified ITC instructors with special experience in the field of building applications.

**Compatible with the following products**

- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display



## P/N: ITC-EXP-2061

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2061  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

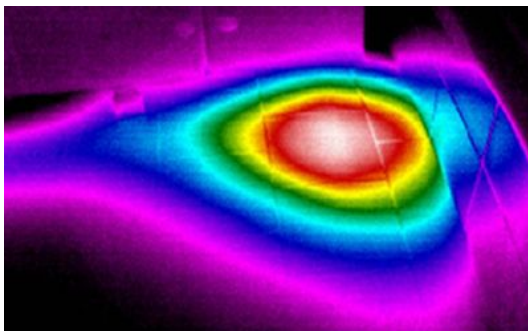
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course gives a general introduction to IR thermography and an overview on its specific use for inspections of heating and HVAC systems, and related installations. It aims at giving you clues on what you can do with your camera.

During the first day, you learn the basics of thermography, and how to use your camera the best way. The second day you will get introduced to various heating systems before you learn about typical faults and how thermography helps you to locate and analyze these. Emphasis is put on case studies, selected from the field.

### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- IR Camera handling
- Heating systems
- Pipe tracing and localization of water circuits
- Water leaks
- Moisture and humidity
- Water radiators
- Tanks, manifolds and plenums
- HVAC systems
- Industrial heat exchangers
- Photovoltaic panel inspection
- Data analysis and reports

### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement
- Application labs

### Course information

Available languages	English, French, German, Italian, Spanish, Swedish
Target group	<ul style="list-style-type: none"> <li>• Beginners and anybody interested in IR thermography, plumbing and HVAC applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Plumbers or persons working with plumbing and or/HVAC systems</li> <li>• Facility managers</li> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>

### Course details

Duration	2 days
Structure	Theory, camera handling, demos and practical labs alternate.



**P/N: ITC-EXP-2061**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2061; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"><li>• Tuition by qualified ITC instructor</li><li>• Training material in printed format</li><li>• Refreshments</li><li>• Diploma of attendance</li><li>• Might include more, such as lunch, depending on location</li></ul>
Course organization	
ITC	The "ITC Short Course HVAC and plumbing" is offered in EMEA by ITC and partners. Specific customer requests shall be forwarded to the closest ITC or ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course HVAC and plumbing" is lectured by qualified ITC instructors with special experience in the field of electrical installations.

**Compatible with the following products**

- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-2069

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2069  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

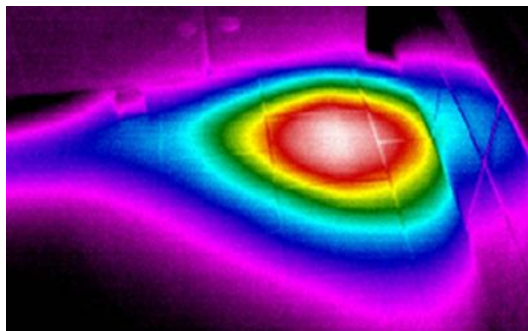
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course gives a general introduction to IR thermography and an overview on its specific use for inspections of heating and HVAC systems, and related installations. It aims at giving you clues on what you can do with your camera.

During the first day, you learn the basics of thermography, and how to use your camera the best way. The second day you will get introduced to various heating systems before you learn about typical faults and how thermography helps you to locate and analyze these. Emphasis is put on case studies, selected from the field.

### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- IR Camera handling
- Heating systems
- Pipe tracing and localization of water circuits
- Water leaks
- Moisture and humidity
- Water radiators
- Tanks, manifolds and plenums
- HVAC systems
- Industrial heat exchangers
- Photovoltaic panel inspection
- Data analysis and reports

### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement
- Application labs

### Course information

Available languages	English, French, German, Italian, Spanish, Swedish
Target group	<ul style="list-style-type: none"> <li>• Beginners and anybody interested in IR thermography, plumbing and HVAC applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Plumbers or persons working with plumbing and or/HVAC systems</li> <li>• Facility managers</li> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>

### Course details

Duration	2 days
Structure	Theory, camera handling, demos and practical labs alternate.
Exam	None

**P/N: ITC-EXP-2069**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2069; r. 23306; en-US

Course details	
Course fee includes	<ul style="list-style-type: none"><li>• Tuition by qualified ITC instructor</li><li>• Training material in printed format</li><li>• Diploma of attendance</li><li>• Attendance of a group up to 10 persons</li><li>• Might include more, such as refreshments or lunch, depending on location.</li></ul>
Note	Course fee does not include cost for instructor's travelling or lodging.
Course organization	
ITC	The "ITC Short Course HVAC and plumbing" is offered in EMEA by ITC and partners. Specific customer requests shall be forwarded to the closest ITC or ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course HVAC and plumbing" is lectured by qualified ITC instructors with special experience in the field of electrical installations.

**Compatible with the following products**

- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-1019

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1019  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This is a full one day course for beginners and everybody interested in IR thermography and its applications. The course covers the basics of IR theory and includes demos, camera hand-on and practical exercises using relevant key labs.

### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- Introduction to electrical and building inspections
- IR Camera handling
- Data analysis and reports

### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement

### Course information

Available languages	English, French, German, Swedish, Danish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in IR thermography and its applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> <li>• A person who starts to use IR cameras at work</li> <li>• Students and pupils with thermography related projects</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>

### Course details

Duration	1 day
Structure	Theory, camera handling and demos in the morning. Practical labs in the afternoon.

**P/N: ITC-EXP-1019**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1019; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by qualified ITC instructor</li> <li>• Training material in printed format</li> <li>• Diploma of attendance</li> <li>• Attendance of a group up to 10 persons</li> <li>• Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	The "ITC Short Course Introduction to Thermography" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Introduction to Thermography" is lectured by qualified ITC instructors with long time experience in the various fields of thermography.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)

**P/N: ITC-EXP-1019**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1019; r. 23306; en-US

- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC



---

**P/N: ITC-EXP-1019**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1019; r. 23306; en-US

- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display



## P/N: ITC-EXP-1011

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1011  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This is a full one day course for beginners and everybody interested in IR thermography and its applications. The course covers the basics of IR theory and includes demos, camera hand-on and practical exercises using relevant key labs.

#### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- Introduction to electrical and building inspections
- IR Camera handling
- Data analysis and reports

#### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement

### Course information

Available languages	English, French, German, Swedish, Danish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in IR thermography and its applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> <li>• A person who starts to use IR cameras at work</li> <li>• Students and pupils with thermography related projects</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>

### Course details

Duration	1 day
Structure	Theory, camera handling and demos in the morning. Practical labs in the afternoon.

**P/N: ITC-EXP-1011**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1011; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by qualified ITC instructor</li> <li>• Training material in printed format</li> <li>• Diploma of attendance</li> <li>• Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>
Course organization	
ITC	The "ITC Short Course Introduction to Thermography" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Introduction to Thermography" is lectured by qualified ITC instructors with long time experience in the various fields of thermography.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)

**P/N: ITC-EXP-1011**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1011; r. 23306; en-US

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL

---

**P/N: ITC-EXP-1011**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1011; r. 23306; en-US

- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-SOW-0001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-SOW-0001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

These courses are for users of FLIR software like FLIR Reporter Professional or FLIR ResearchIR. Please observe that content and labs depend on the software used.

#### Content

- System requirements
- Configuration
- Analyzing functions
- Templates
- Reporting functions
- Data exchange

#### Labs

- System set up
- Data import
- Data analysis
- Creating templates
- Creating reports
- Exporting data
- Triggering

### Course information

Available languages	English, French, German, other languages upon request
Target group	<ul style="list-style-type: none"> <li>• Persons interested in, or users, of the specific software.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Consultants interested in reporting</li> <li>• Building inspectors with reporting needs</li> <li>• R&amp;D staff interested in advanced data analysis</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Laptop with installed software full version or 30 day demo (download on <a href="http://www.flir.com">www.flir.com</a>)</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic knowledge about thermography and related parameters.</li> </ul>

### Course details

Duration	Depends on software.
Structure	Short system introduction, then demos and practical exercises.

**P/N: ITC-SOW-0001**

© 2015, FLIR Systems, Inc.  
#ITC-SOW-0001; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>
Course organization	
ITC	Software courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Software courses are lectured by ITC qualified instructors experienced in usage of the software being subject of the class.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)

**P/N: ITC-SOW-0001**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0001; r. 23306; en-US

- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°

**P/N: ITC-SOW-0001**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0001; r. 23306; en-US

- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display



## P/N: ITC-SOW-0009

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-SOW-0009  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
These courses are for users of FLIR software like FLIR Reporter Professional or FLIR ResearchIR. Please observe that content and labs depend on the software used.	
Content	
<ul style="list-style-type: none"> <li>System requirements</li> <li>Configuration</li> <li>Analyzing functions</li> <li>Templates</li> <li>Reporting functions</li> <li>Data exchange</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>System set up</li> <li>Data import</li> <li>Data analysis</li> <li>Creating templates</li> <li>Creating reports</li> <li>Exporting data</li> <li>Triggering</li> </ul>	
Course information	
Available languages	English, French, German, other languages upon request
Target group	<ul style="list-style-type: none"> <li>Persons interested in, or users, of the specific software.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Consultants interested in reporting</li> <li>Building inspectors with reporting needs</li> <li>R&amp;D staff interested in advanced data analysis</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Laptop with installed software full version or 30 day demo (download on <a href="http://www.flir.com">www.flir.com</a>)</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Basic knowledge about thermography and related parameters.</li> </ul>
Course details	
Duration	Depends on software.
Structure	Short system introduction, then demos and practical exercises.

**P/N: ITC-SOW-0009**

© 2015, FLIR Systems, Inc.  
#ITC-SOW-0009; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	Software courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Software courses are lectured by ITC qualified instructors experienced in usage of the software being subject of the class.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm

**P/N: ITC-SOW-0009**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0009; r. 23306; en-US

- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°

**P/N: ITC-SOW-0009**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0009; r. 23306; en-US

- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-1001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	1 day
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-1001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1001; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-1001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1001; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-1001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1001; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display



## P/N: ITC-EXP-1009

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1009  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	1 day
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-1009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1009; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-1009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1009; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-1009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1009; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-2001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	2 days
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-2001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2001; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-2001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2001; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-2001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2001; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display



## P/N: ITC-EXP-2009

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2009  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	2 days
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-2009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2009; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-2009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2009; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-2009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2009; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-3001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-3001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	3 days
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-3001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3001; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-3001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3001; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-3001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3001; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display



## P/N: ITC-EXP-3009

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-3009  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	3 days
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-3009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3009; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-3009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3009; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-3009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3009; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-SOW-1001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-SOW-1001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

ITC Training FLIR Software - attendance 1 pers. (1 day)

### Course details

Duration	1 day
----------	-------

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)



---

**P/N: ITC-SOW-1001**

© 2015, FLIR Systems, Inc.

#ITC-SOW-1001; r. 23306; en-US

- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-SOW-2001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-SOW-2001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

ITC Training FLIR Software - attendance 1 pers. (2 days)

### Course details

Duration	2 days
----------	--------

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)



---

**P/N: ITC-SOW-2001**

© 2015, FLIR Systems, Inc.

#ITC-SOW-2001; r. 23306; en-US

- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5



## P/N: ITC-TFT-0100

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TFT-0100  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

ITC travel time for instructor

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TFT-0100**

© 2015, FLIR Systems, Inc.  
#ITC-TFT-0100; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TFT-0100**

© 2015, FLIR Systems, Inc.  
#ITC-TFT-0100; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-FEE-0130

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-FEE-0130  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
EN - Repeat Certification EN473 IT Category 1	
Course information	
Available languages	DACH only
Course details	
Duration	1 day

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)

---

**P/N: ITC-FEE-0130**

© 2015, FLIR Systems, Inc.

#ITC-FEE-0130; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TOL-1003

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1003  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (Center and South Africa)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1003**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1003; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TOL-1003**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1003; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5



## P/N: ITC-TOL-1001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (Europe, Balcans, Turkey, Cyprus)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1001**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1001; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TOL-1001**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1001; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TOL-1005

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1005  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (other)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1005**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1005; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TOL-1005**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1005; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TOL-1002

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1002  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (Russia/GUS, Middle East, North Africa)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1002**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1002; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC



**P/N: ITC-TOL-1002**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1002; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TOL-1004

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1004  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (various)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1004**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1004; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TOL-1004**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1004; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

# Accessories for FLIR T4xx series

---

## P/N: T911093

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T911093  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Tool belt for FLIR camera pouches.	
Physical data	
Weight	0.117 kg (0.26 lb.)
Length	1.44 m (4.7 ft.)
Color	Black
Shipping information	
Packaging, type	Cardboard box
List of contents	• Tool belt
Packaging, weight	0.318 kg (0.7 lb.)
Packaging, size	243 × 165 × 82 mm (9.6 × 6.5 × 3.2 in.)
EAN-13	7332558003442 4743254000384 (Estonia plant)
UPC-12	845188003210
Country of origin	Estonia

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)

**P/N: T911093**

© 2015, FLIR Systems, Inc.  
#T911093; r. 23306; en-US

- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 63901-0101; FLIR E4
- 63905-0501; FLIR E5
- 63902-0202; FLIR E6
- 63903-0303; FLIR E8

## P/N: 19250-100

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 19250-100  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This device is a viewport which consist of a crystal "glass" window, mounted in an aluminum frame. The glass is specially formulated to allow transmission of infrared light to allow use of infrared thermal sensing equipment without opening the enclosure. This device is intended for installation in doors or walls of electrical enclosures without compromising the integrity of the enclosure.	
Power system	
Voltage	Any range
Environmental data	
Environment	Indoor/outdoor type 4/12
Operating temperature range	Maximum: 260°C (500°F)
Storage temperature range	Optics, maximum: 1357°C (2474°F)
Physical data	
Size (L × W × H)	25.5 × 73 × 86 mm (1.0 × 2.87 × 3.36 in.)
Viewing aperture diameter	45 mm (1.77 in.)
Material	Optics: CaF <sub>2</sub> (Calcium Fluoride Crystal) Body: Anodized aluminum Hardware: steel
Comments to physical data	Required hole diameter, nominal: 60.3 mm (2.375 in.) Greenlee Punch: 76BB Maximum pullout strength: 658 kg (1450 lb.)
Lens	
Waveband	Broadband IR: short-, mid-, and longwave
Visible light spectrum	Yes
Certifications	
Certification	UL, IP67, NEMA Type 4/12, CSA
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>IR window</li> <li>Case</li> <li>Mounting instruction</li> <li>Additional safety screw</li> </ul>
Packaging, weight	0.24 kg (0.53 lb.)
Packaging, size	120 × 115 × 40 mm (4.7 × 4.5 × 1.6 in.)
EAN-13	4743254000728
UPC-12	845188002817
Country of origin	Estonia





IR Window 2 in

---

**P/N: 19250-100**

© 2015, FLIR Systems, Inc.  
#19250-100; r. 23306; en-US

**Supplies & accessories:**

## P/N: 19251-100

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 19251-100  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This device is a viewport which consist of a crystal "glass" window, mounted in an aluminum frame. The glass is specially formulated to allow transmission of infrared light to allow use of infrared thermal sensing equipment without opening the enclosure. This device is intended for installation in doors or walls of electrical enclosures without compromising the integrity of the enclosure.	
Power system	
Voltage	Any range
Environmental data	
Environment	Indoor/outdoor type 4/12
Operating temperature range	Maximum: 260°C (500°F)
Storage temperature range	Optics, maximum: 1357°C (2474°F)
Physical data	
Size (L × W × H)	26.9 × 99 × 107 mm (1.05 × 3.89 × 4.22 in.)
Viewing aperture diameter	69 mm (2.71 in.)
Material	Optics: CaF <sub>2</sub> (Calcium Fluoride Crystal) Body: Anodized aluminum Hardware: steel
Comments to physical data	Required hole diameter, nominal: 88.9 mm (3.5 in.) Greenlee Punch: 739BB Maximum pullout strength: 1656 kg (3650 lb.)
Lens	
Waveband	Broadband IR: short-, mid-, and longwave
Visible light spectrum	Yes
Certifications	
Certification	UL, IP67, NEMA Type 4/12, CSA
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>IR window</li> <li>Case</li> <li>Mounting instruction</li> <li>Additional safety screw</li> </ul>
Packaging, weight	0.39 kg (0.86 lb.)
Packaging, size	130 × 140 × 40 mm (5.12 × 5.51 × 1.58 in.)
EAN-13	4743254000735
UPC-12	845188002824
Country of origin	Estonia



IR Window 3 in.

---

**P/N: 19251-100**

© 2015, FLIR Systems, Inc.  
#19251-100; r. 23306; en-US

**Supplies & accessories:**

## P/N: 19252-100

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 19252-100  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This device is a viewport which consist of a crystal "glass" window, mounted in an aluminum frame. The glass is specially formulated to allow transmission of infrared light to allow use of infrared thermal sensing equipment without opening the enclosure. This device is intended for installation in doors or walls of electrical enclosures without compromising the integrity of the enclosure.	
Power system	
Voltage	Any range
Environmental data	
Environment	Indoor/outdoor type 4/12
Operating temperature range	Maximum: 260°C (500°F)
Storage temperature range	Optics, maximum: 1357°C (2474°F)
Physical data	
Size (L x W x H)	29.3 x 127 x 137 mm (1.15 x 5.01 x 5.37 in.)
Viewing aperture diameter	89 mm (3.50 in.)
Material	Optics: CaF <sub>2</sub> (Calcium Fluoride Crystal) Body: Anodized aluminum Hardware: steel
Comments to physical data	Required hole diameter, nominal: 114.3 mm (4.5 in.) Greenlee Punch: 742BB Maximum pullout strength: 1678 kg (3700 lb.)
Lens	
Waveband	Broadband IR: short-, mid-, and longwave
Visible light spectrum	Yes
Certifications	
Certification	UL, IP67, NEMA Type 4/12, CSA
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>IR window</li> <li>Case</li> <li>Mounting instruction</li> <li>Additional safety screw</li> </ul>
Packaging, weight	0.46 kg (1.01 lb.)
Packaging, size	165 x 175 x 40 mm (6.50 x 6.89 x 1.58 in.)
EAN-13	4743254000742
UPC-12	845188002831
Country of origin	Estonia



IR Window 4 in.

---

**P/N: 19252-100**

© 2015, FLIR Systems, Inc.  
#19252-100; r. 23306; en-US

**Supplies & accessories:**

## P/N: 19250-200

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 19250-200  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Part name	IRW-2S
Material number	19250-200
Part description	Stainless steel IR window, 2" diameter
This device is a viewport that consist of a crystal "glass" window mounted in an aluminum frame. The glass is specially formulated to allow transmission of infrared (IR) light to allow use of IR thermal sensing equipment without opening the enclosure. This device is intended for installation in doors or walls of electrical enclosures without compromising the integrity of the enclosure.	
<b>Power system</b>	
Voltage	Any range
<b>Lens</b>	
Waveband	Broadband IR: short-, mid-, and longwave
Visible light spectrum	Yes
<b>Certifications</b>	
Certifications	UL, IP67, NEMA Type 4/12, CSA
<b>Physical data</b>	
Weight	0.5 kg (1 lb.)
Dimensions (H x W x L)	26.9 mm x 99 mm x 107 mm (1.05" x 3.89" x 4.22")
Material	Optics: CaF <sub>2</sub> (calcium fluoride crystal). Body: stainless steel AISI 316. Hardware: steel
Color	Metallic silver
<b>Shipping information</b>	
Packaging type	Color box
Packaging contents	<ul style="list-style-type: none"> <li>IR window</li> <li>Case</li> <li>Mounting instructions</li> <li>Additional safety screw</li> </ul>
Unit weight	0.54 kg (1.2 lb)
Each dimensions (H x W x L)	38.1 mm x 107.95 mm x 127 mm (1.5" x 4.25" x 5")
EAN-13	4743254001510
UPC-12	845188007584
Country of origin	Estonia
Tariff Code	9027.90.5450



---

**P/N: 19250-200**

© 2015, FLIR Systems, Inc.  
#19250-200; r. 23306; en-US

---

Technical support	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>

**Supplies and accessories**

## P/N: 19251-200

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 19251-200  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Part name	IRW-3S
Material number	19251-200
Part description	Stainless steel IR window, 3" diameter
This device is a viewport that consist of a crystal "glass" window mounted in an aluminum frame. The glass is specially formulated to allow transmission of infrared (IR) light to allow use of IR thermal sensing equipment without opening the enclosure. This device is intended for installation in doors or walls of electrical enclosures without compromising the integrity of the enclosure.	
<b>Power system</b>	
Voltage	Any range
<b>Environmental</b>	
Environment	Indoor/outdoor type 4/12
Operating temperature range	Maximum: 260°C (500°F)
Storage temperature range	Optics, maximum: 1357°C (2474°F)
<b>Certifications</b>	
Certifications	UL, IP67, NEMA Type 4/12, CSA
<b>Physical data</b>	
Weight:	0.7 kg (1.55 lb.)
Dimensions (H x W x L)	26.9 mm x 99 mm x 107 mm (1.05" x 3.89" x 4.22")
Material	Optics: CaF <sub>2</sub> (calcium fluoride crystal). Body: stainless steel AISI 316. Hardware: steel
Color	Metallic silver
<b>Lens</b>	
Waveband	Broadband IR: short-, mid-, and longwave
Visible light spectrum	Yes
<b>Shipping information</b>	
Packaging type	Color box
Packaging contents	<ul style="list-style-type: none"> <li>IR window</li> <li>Case</li> <li>Mounting instruction</li> <li>Additional safety screw</li> </ul>
Unit weight	0.77 kg ( 1.7 lb.)





## SS IR window 3"

### P/N: 19251-200

© 2015, FLIR Systems, Inc.  
#19251-200; r. 23306; en-US

Shipping information	
Unit dimensions (H × W × L)	38.1 mm × 127 mm × 139.7 mm (1.5" × 5" × 5.5")
EAN-13	4743254001527
UPC-12	845188007591
Country of origin	Estonia
Tariff code	9027.90.5450
Technical support	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>

### Supplies and accessories

## P/N: 19252-200

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 19252-200  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Part name	IRW-4S
Material number	19252-200
Part description	Stainless steel IR window, 4" diameter
This device is a viewport that consist of a crystal "glass" window mounted in an aluminum frame. The glass is specially formulated to allow transmission of infrared (IR) light to allow use of IR thermal sensing equipment without opening the enclosure. This device is intended for installation in doors or walls of electrical enclosures without compromising the integrity of the enclosure.	
<b>Power system</b>	
Voltage	Any range
<b>Environmental</b>	
Environment	Indoor/outdoor type 4/12
Operating temperature range	Maximum: 260°C (500°F)
Storage temperature range	Optics, maximum: 1357°C (2474°F)
<b>Certifications</b>	
Certifications	UL, IP67, NEMA Type 4/12, CSA
<b>Physical data</b>	
Weight:	1.18 kg (2.6 lb.)
Dimensions (H x W x L)	26.9 mm x 99 mm x 107 mm (1.05" x 3.89" x 4.22")
Material	Optics: CaF <sub>2</sub> (calcium fluoride crystal). Body: stainless steel AISI 316. Hardware: steel
Color	Metallic silver
<b>Lens</b>	
Waveband	Broadband IR: short-, mid-, and longwave
Visible light spectrum	Yes
<b>Shipping information</b>	
Packaging type	Color box
Packaging contents	<ul style="list-style-type: none"> <li>IR window</li> <li>Case</li> <li>Mounting instruction</li> <li>Additional safety screw</li> </ul>
Unit weight	1.32 kg ( 2.9 lb.)
Unit dimensions (H x W x L)	38.1 mm x 165.1 mm x 177.8 mm ( 1.5" x 6.5" x 7")
EAN-13	4743254001534
UPC-12	845188007607



## SS IR window 4"

### P/N: 19252-200

© 2015, FLIR Systems, Inc.  
#19252-200; r. 23306; en-US

Shipping information	
Country of origin	Estonia
Tariff code	9027.90.5450
Technical support	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>

### Supplies and accessories

## P/N: 1196961

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1196961  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
The 15° lens is a popular lens accessory and provides 1.7× magnification compared to the standard lens. Ideal for small or distant targets such as overhead power lines.	
Imaging and optical data	
Field of view (FOV)	15° × 11.25°
Minimum focus distance	1.2 m (3.93 ft.)
Focal length	30.38 mm (1.2 in.)
Spatial resolution (IFOV)	Depends on the IR resolution of the camera: 1.65 mrad for 160 × 120 pixels 1.32 mrad for 200 × 150 pixels 1.10 mrad for 240 × 180 pixels 0.82 mrad for 320 × 240 pixels
F-number	1.3
Physical data	
Weight	0.092 kg (0.203 lb.), incl. two lens caps
Size (L × D)	24 × 58 mm (1.0 × 2.3 in.)
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Lens</li> <li>• Lens case</li> </ul>
Packaging, weight	0.32 kg (0.71 lb.)
Packaging, size	172 × 131 × 133 mm (6.8 × 5.2 × 5.2 in.)
EAN-13	7332558001134 4743254000889 (Estonia plant)
UPC-12	845188000127
Country of origin	Sweden

### Compatible with the following products

- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)

---

**P/N: 1196961**

© 2015, FLIR Systems, Inc.  
#1196961; r. 23380; en-US

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: 1196960

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1196960  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This wide angle lens has a field of view almost double that of the standard lens. Perfect for wide or tall targets or when working in crowded spaces.	
Imaging and optical data	
Field of view (FOV)	45° × 33.8°
Minimum focus distance	0.20 m (0.66 ft.)
Focal length	9.66 mm (0.38 in.)
Spatial resolution (IFOV)	Depends on the IR resolution of the camera: 5.18 mrad for 160 × 120 pixels 4.14 mrad for 200 × 150 pixels 3.45 mrad for 240 × 180 pixels 2.59 mrad for 320 × 240 pixels
F-number	1.3
Physical data	
Weight	0.105 kg (0.231 lb.), incl. two lens caps
Size (L × D)	38 × 47 mm (1.5 × 1.9 in.)
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Lens</li> <li>• Lens case</li> </ul>
Packaging, weight	0.33 kg (0.73 lb.)
Packaging, size	172 × 131 × 133 mm (6.8 × 5.2 × 5.2 in.)
EAN-13	7332558001141 4743254000834 (Estonia plant)
UPC-12	845188000134
Country of origin	Sweden

### Compatible with the following products

- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)

---

**P/N: 1196960**

© 2015, FLIR Systems, Inc.  
#1196960; r. 23380; en-US

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: T197215

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197215  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
For R&D usage or development purposes. As an example looking at PCB's or small electronic components.	
Imaging and optical data	
Field of view (FOV)	32 × 24 mm
Magnifying factor	4×
Working distance	79 mm
Depth of field	±2.0 mm
Focal length	73 mm (2.9 in.)
Spatial resolution (IFOV)	Depends on the IR resolution of the camera: 200 µm for 160 × 120 pixels 160 µm for 200 × 150 pixels 133 µm for 240 × 180 pixels 100 µm for 320 × 240 pixels
F-number	1.3
Number of lenses	2 (2 asph)
MTF @ 70% of FOV	Normal requirements (52%)
Distortion	3%
Physical data	
Weight	0.11 kg (0.24 lb.)
Size (L × D)	35.2 × 55 mm
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Lens</li> <li>• Lens case</li> </ul>
Packaging, weight	0.340 kg (0.75 lb.)
Packaging, size	172 × 131 × 133 mm (6.8 × 5.2 × 5.2 in.)
EAN-13	7332558005088
UPC-12	845188005115
Country of origin	Sweden

### Compatible with the following products

- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)



---

**P/N: T197215**

© 2015, FLIR Systems, Inc.  
#T197215; r. 23380; en-US

- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc

## P/N: T197214

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197214  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
For R&D usage or development purposes. As an example looking at PCB's or small electronic components.	
Imaging and optical data	
Field of view (FOV)	16 × 12 mm
Magnifying factor	2×
Working distance	33 mm
Depth of field	±0.4 mm
Focal length	37 mm (1.5 in.)
Spatial resolution (IFOV)	Depends on the IR resolution of the camera: 100 µm for 160 × 120 pixels 80 µm for 200 × 150 pixels 67 µm for 240 × 180 pixels 50 µm for 320 × 240 pixels
F-number	1.3
Number of lenses	2 (2 asph)
MTF @ 70% of FOV	Normal requirements (52%)
Distortion	3%
Physical data	
Weight	0.11 kg (0.24 lb.)
Size (L × D)	35.2 × 55 mm
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Lens</li> <li>• Lens case</li> </ul>
Packaging, weight	0.346 kg (0.8 lb.)
Packaging, size	172 × 131 × 133 mm (6.8 × 5.2 × 5.2 in.)
EAN-13	7332558005095
UPC-12	845188005122
Country of origin	Sweden

### Compatible with the following products

- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)



Close-up 2x (50 µm) incl. case

---

**P/N: T197214**

© 2015, FLIR Systems, Inc.  
#T197214; r. 23380; en-US

- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc

## P/N: T197408

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197408  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
A narrow FOV is used in applications where the object that is going to be monitored is remote from the Camera or when the Camera needs to be far away from the object due to for an example high temperatures.	
Imaging and optical data	
Field of view (FOV)	6° × 4.5°
Minimum focus distance	4 m (13.11 ft.)
Focal length	76 mm (3.0 in.)
Spatial resolution (IFOV)	Depends on the IR resolution of the camera: 0.66 mrad for 160 × 120 pixels 0.53 mrad for 200 × 150 pixels 0.44 mrad for 240 × 180 pixels 0.33 mrad for 320 × 240 pixels
F-number	1.3
Number of lenses	3 (3 asph)
MTF @ 70% of FOV	Normal requirements (52%)
Distortion	3%
Physical data	
Weight	Lens: 0.328 kg (0.723 lb.) Support: 0.099 kg (0.218 lb.)
Size (L × D)	106 × 89 mm (4.17 × 3.48 in.), excluding support
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Lens</li> <li>• Lens case</li> <li>• Mounting support</li> </ul>
Packaging, weight	1.211 kg (2.7 lb.)
Packaging, size	385 × 308 × 165 mm (15.2 × 12.1 × 6.5 in.)
EAN-13	7332558004524
UPC-12	845188004491
Country of origin	Sweden

### Compatible with the following products

- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)



IR lens, 76 mm (6°) with case and mounting support for T/B-200/400

---

**P/N: T197408**

© 2015, FLIR Systems, Inc.  
#T197408; r. 23380; en-US

- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)

## P/N: T197412

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197412  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
A wide angle lens is used when working in confined areas or when a large object area needs to be covered. This lens is also designed for to look in to electrical cabinets down to 1/2" windows	
Imaging and optical data	
Field of view (FOV)	90° × 73°
Minimum focus distance	40 mm (1.57 in.)
Focal length	4 mm (0.157 in.)
Spatial resolution (IFOV)	Depends on the IR resolution of the camera: 12.5 mrad for 160 × 120 pixels 10.0 mrad for 200 × 150 pixels 8.33 mrad for 240 × 180 pixels 6.25 mrad for 320 × 240 pixels
F-number	1.3
Number of lenses	3 (3 asph)
MTF @ 70% of FOV	Normal requirements (52%)
Distortion	5%
Physical data	
Weight	Lens: 0.262 kg (0.578 lb.) Support: 0.053 kg (0.117 lb.)
Size (L × D)	90 × 60 mm (3.54 × 2.36 in.), excluding support
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Lens</li> <li>• Lens case</li> <li>• Mounting support</li> </ul>
Packaging, weight	1.056 kg (2.3 lb.)
Packaging, size	385 × 308 × 165 mm (15.2 × 12.1 × 6.5 in.)
EAN-13	7332558004517
UPC-12	845188004484
Country of origin	Sweden

### Compatible with the following products

- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)



IR lens, 4 mm (90°) with case and mounting support for T/B2xx-4xx

---

**P/N: T197412**

© 2015, FLIR Systems, Inc.  
#T197412; r. 23380; en-US

- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)

## P/N: T197000

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197000  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

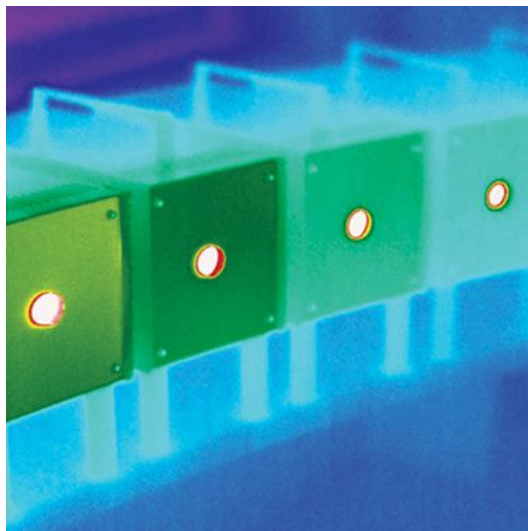
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

For high temperature applications the camera can be calibrated for high temperature ranges.

### Measurement

Optional object temperature range	+200°C to +1200°C (+392°F to +2192°F)
-----------------------------------	---------------------------------------

### Compatible with the following products

- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL





High temp. option +1200°C/+2192°F for FLIR T/B2xx to T/B4xx and A3xx, A3xxf, A3xxpt, A3xxsc series

---

**P/N: T197000**

© 2015, FLIR Systems, Inc.  
#T197000; r. 23306; en-US

- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL

## P/N: 1196398ACC

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1196398ACC  
Commit: 23871  
Language: en-US  
Modified: 2015-03-10 13:36  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
High capacity battery for the IR camera.	
Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	7.2 V
Battery capacity	2.2 Ah, at +20°C (+68°F)
Battery note	Approximate lithium content: 1.0 g
Charging time	2.5 h to 95% capacity, charging status indicated by LEDs
Charging temperature	0°C to +45°C (+32°F to +113°F)
Environmental data	
Battery storage temperature range	-40°C to +70°C (-40°F to +158°F)
Physical data	
Battery weight	0.12 kg (0.26 lb.)
Size (L x W x H)	92 x 41 x 26 mm (3.6 x 1.6 x 1.0 in.)
Shipping information	
Packaging, type	Cardboard box
List of contents	• Battery
Packaging, weight	0.21 kg (0.46 lb.)
Packaging, size	183 x 136 x 63 mm (7.2 x 5.4 x 2.5 in.)
EAN-13	7332558007921
UPC-12	845188008284
Country of origin	Sweden

### Compatible with the following products

- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)

## P/N: T197667

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197667  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
A complete battery package consisting of three standard products	
Shipping information	
List of contents	<ul style="list-style-type: none"> <li>T197648 Battery kit, see 1196398 - Battery for specifications</li> <li>T197650 2-bay charger kit incl Power supply</li> <li>T197649 12 VDC Connection cable kit, see 1196497 - 12 VDC connection cable for specifications</li> </ul>
EAN-13	7332558009307
UPC-12	845188009830
Country of origin	Sweden

### Compatible with the following products

- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)

### P/N: T197650

#### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

#### Document identity

Publ. No.: T197650  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

#### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

#### Website

<http://www.flir.com>

#### Customer support

<http://support.flir.com>

#### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Stand-alone 2-bay battery charger, including power supply with multi plugs.	
Power system	
AC operation	100–240 VAC, 50/60 Hz, 12 VDC out
Power	2000 mA at 12 VDC
Physical data	
Battery charger size (L × W × H)	80 × 98 × 47 mm (3.2 × 3.9 × 1.8 in.), without battery
Cable length	1.98 m (6.5 ft.)
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Stand-alone 2-bay battery charger</li> <li>• Power supply including cable</li> <li>• EU plug</li> <li>• UK plug</li> <li>• US plug</li> <li>• AU plug</li> </ul>
Packaging, weight	0.542 kg (1.2 lb.)
Packaging, size	243 × 165 × 82 mm (9.6 × 6.5 × 3.2 in.)
EAN-13	7332558007914
UPC-12	845188002657
Country of origin	Sweden

#### Compatible with the following products

- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)

## P/N: T910814

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T910814  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
FLIR P/B/SC6xx and FLIR GF3xx series:	
Power supply, including multiple plugs, to charge the battery when it is inside or outside of the camera.	
FLIR T6xx and FLIR Exx series:	
Power supply, including multiple plugs, to charge the battery when it is inside the camera or in the battery charger.	
Power system	
AC operation	100–240 VAC, 50/60 Hz, 12 VDC out
Power	3000 mA at 12 VDC
Physical data	
Cable length	1.98 m (6.5 ft.)
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Power supply including cable</li> <li>EU plug</li> <li>UK plug</li> <li>US plug</li> <li>AU plug</li> </ul>
Packaging, weight	0.324 kg (9.7 lb.)
Packaging, size	152 × 78 × 73 mm (6.0 × 3.1 × 2.9 in.)
EAN-13	7332558003794 4743254001763 (Estonia plant)
UPC-12	845188002145
Country of origin	Sweden

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)

**P/N: T910814**

© 2015, FLIR Systems, Inc.  
#T910814; r. 23306; en-US

- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)



Power supply, incl. multi plugs

---

**P/N: T910814**

© 2015, FLIR Systems, Inc.  
#T910814; r. 23306; en-US

- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: T911230ACC

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T911230ACC  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.

General description	
SD Card for data storage (e.g. images)	
Data communication interfaces	
Memory card, size	At least 4 GB
Physical data	
Weight	2 g (0.07 oz.)
Size (L × W × H)	32.0 × 24.0 × 2.1 mm (1.26 × 0.94 × 0.08 in.)
Shipping information	
Packaging, type	Cardboard box
List of contents	• SD Card
Packaging, weight	65 g (2.3 oz.)
Packaging, size	170 × 64 × 75 mm (6.69 × 2.52 × 2.95 in.)
EAN-13	7332558006221 4743254001503 (Estonia plant)
UPC-12	845188006570
Country of origin	Sweden

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)



**P/N: T911230ACC**

© 2015, FLIR Systems, Inc.  
#T911230ACC; r. 23306; en-US

- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

**P/N: 1910423**

**Copyright**

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

**Document identity**

Publ. No.: 1910423  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

**Corporate Headquarters**

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

**Website**

<http://www.flir.com>

**Customer support**

<http://support.flir.com>

**Disclaimer**

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This cable is used to connect the infrared camera with a computer, using the USB protocol.	
Physical data	
Weight	60 g (2.1 oz.)
Cable length	1.8 m (5.9 ft.)
Connector	Standard USB-A to USB Mini-B
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558003428
UPC-12	845188002176
Country of origin	Sweden

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)

**P/N: 1910423**

© 2015, FLIR Systems, Inc.  
#1910423; r. 23306; en-US

- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40



---

**P/N: 1910423**

© 2015, FLIR Systems, Inc.  
#1910423; r. 23306; en-US

- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72201-0106; FLIR K45
- 72201-0206; FLIR K55

## P/N: T198509

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198509  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This cable is used to power the infrared camera from the cigarette lighter socket in a car.	
Note: This is the same product as p/n 1196497.	
Physical data	
Cable length	1.2 m (3.9 ft).
Shipping information	
Packaging, type	Cardboard box
Packaging, weight	0.125 kg (0.28 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558004340 4743254001435 (Estonia plant)
UPC-12	845188004361
Country of origin	Sweden

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)

**P/N: T198509**

© 2015, FLIR Systems, Inc.  
#T198509; r. 23306; en-US

- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72201-0106; FLIR K45
- 72201-0206; FLIR K55

## P/N: 1910582ACC

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1910582ACC  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This cable is used to transfer video signals from the infrared camera to an external monitor, or to a computer featuring an internal video card.	
Physical data	
Cable length	1.9 m (6.2 ft.)
Connector	3.5 mm (four pin) plug to RCA (red, white, yellow)
Shipping information	
Packaging, type	Cardboard box
Packaging, weight	168 g (5.9 oz.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558006269
UPC-12	845188006617
Country of origin	Sweden

### Compatible with the following products

- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: T198370ACC

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198370ACC  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Rugged, watertight plastic shipping case. Holds all items neatly and securely. The case can be locked with padlocks and features a membrane to prevent pressure build-up in airplane cargo holds.	
Physical data	
Weight	2.54 kg (5.59 lb.)
Size (L x W x H)	484 x 345 x 178 mm (19.1 x 13.6 x 7.0 in.)
Material	PP with Rubber Blend (Polypropylene)
Color	Black
Shipping information	
Packaging, type	Cardboard box
List of contents	• Hard transport case
Packaging, weight	3.05 kg (6.72 lb.)
Packaging, size	495 x 370 x 192 mm (19.5 x 14.6 x 7.6 in.)
EAN-13	7332558008348
UPC-12	845188008697
Country of origin	Sweden

### Compatible with the following products

- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)



## P/N: T198495

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198495  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Pouch, with shoulder strap, to carry and protect the camera, made in durable nylon. The pouch can be used together with the tool belt.	
Physical data	
Weight	0.27 kg (0.60 lb.), excluding shoulder strap
Size (L x W x H)	200 x 110 x 185 mm (7.9 x 4.3 x 7.3 in.), excluding shoulder strap
Color	black
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Pouch</li> <li>Strap</li> </ul>
Packaging, weight	0.625 kg (1.38 lb.)
Packaging, size	303 x 206 x 128 mm (11.9 x 8.1 x 5.0 in.)
EAN-13	7332558004500
UPC-12	845188004477
Country of origin	Sweden

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)

---

**P/N: T198495**

© 2015, FLIR Systems, Inc.  
#T198495; r. 23306; en-US

- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)

## P/N: 1124545

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1124545  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Pouch, with strap and belt clip, to carry and protect the camera, made in durable nylon.	
Shipping information	
List of contents	<ul style="list-style-type: none"><li>• Pouch</li><li>• Strap</li><li>• Clip</li></ul>
EAN-13	7332558001233
UPC-12	845188000165
Country of origin	Sweden

### Compatible with the following products

- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)

## P/N: T198493

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198493  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Sunshield, to increase visibility of the LCD.	
Physical data	
Size (L × W × H)	86 × 61 × 46 mm (3.4 × 2.4 × 1.8 in.)
Shipping information	
Packaging, type	Cardboard box
Packaging, weight	0.06 kg (0.13 in.)
Packaging, size	170 × 64 × 75 mm (6.7 × 2.5 × 3.0 in.)
EAN-13	7332558004531
UPC-12	845188004507
Country of origin	Sweden

### Compatible with the following products

- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)

## P/N: T198499

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198499  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Neck strap to carry the camera.	
Physical data	
Color	Black
Shipping information	
Packaging, type	Cardboard box
List of contents	• Neck strap
Packaging, weight	0.168 kg (0.37 lb.)
Packaging, size	183 × 136 × 63 mm (7.2 × 5.4 × 2.5 in.)
EAN-13	7332558004401
UPC-12	845188004408
Country of origin	Sweden

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)



## Neck strap

---

### P/N: T198499

© 2015, FLIR Systems, Inc.  
#T198499; r. 23306; en-US

- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)

## P/N: T197771ACC

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197771ACC  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Headset with Bluetooth for wireless connection with the infrared camera.	
Data communication interfaces	
Bluetooth	Connection to the infrared camera
Audio	Headset including microphone
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Headset</li> <li>Ear clip</li> <li>Charger</li> <li>Multi plugs</li> <li>USB cable Std A to Mini-B</li> </ul>
Packaging, weight	278 g (9.8 oz.)
Packaging, size	183 × 136 × 63 mm (7.2 × 5.35 × 2.48 in.)
EAN-13	7332558006337
UPC-12	845188006686
Country of origin	Sweden

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)

**P/N: T197771ACC**

© 2015, FLIR Systems, Inc.  
#T197771ACC; r. 23306; en-US

- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)



## P/N: T198586

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198586  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description
FLIR Reporter Professional is a powerful software for creating compelling and professional, fully customized, easy-to-interpret maintenance reports.
Professional Report Wizard guides you step-by-step in combining all IR inspection data - infrared and visual images, temperature measurements, and text notes – into a professional, easy-to-interpret maintenance report.
Key features:
<ul style="list-style-type: none"> <li>• Flexible report page design and layout for customized reports</li> <li>• Use quick insert function to easily create custom report pages</li> <li>• Fully integrated with standard Microsoft Word</li> <li>• Generates reports in standard MS Office format and PDF-format</li> <li>• Powerful temperature analysis</li> <li>• Triple Fusion Picture-in-Picture (movable, sizable, scalable)</li> <li>• Rapid report manager supporting automatic report generation by drag-and-drop</li> <li>• Support for MSX (Multi-Spectral Dynamic Imaging) images</li> <li>• Support for sketch images in both IR and visual with on/off toggling</li> <li>• Support for same FOV ("Field of View Match")</li> <li>• Grid settings</li> <li>• Trending functionality</li> <li>• Automatic link to Google™ Maps for images with GPS coordinates</li> <li>• Automatic summary table for the report</li> <li>• Fine tune images and make full temperature analysis directly in Microsoft Word</li> <li>• Spell check</li> <li>• Create your own formulas including measurement values from images</li> <li>• Play radiometric sequences directly in the report</li> <li>• Search functionality to quickly finding images for your report</li> <li>• Panorama tool for combining several images to a larger image</li> <li>• Support for GF series IR images</li> <li>• Auto Update function</li> <li>• Office 2003 (32-bit), Office 2007 (32-bit) and Office 2010 (32-bit)</li> <li>• Windows 7 (32 and 64-bit), Windows Vista (32 and 64-bit)</li> <li>• Support for METERLiNK™ data</li> <li>• *.docx compatibility</li> </ul>
Download
Download your copy of FLIR Reporter Professional here:
<a href="http://support.flir.com/reporter">http://support.flir.com/reporter</a>

**P/N: T198586**

© 2015, FLIR Systems, Inc.  
#T198586; r. 23306; en-US

Release notes	
Version	9.2
New features	<ul style="list-style-type: none"> <li>— News in 9.2: —</li> <li>Option to hide Zoom Viewer</li> <li>Option to extract Visual image from MSI/Fusion image.</li> <li>Support for the new FLIR Ex and Exx series cameras.</li> <li>Support for multispectral images.</li> <li>Support for auto-oriented images.</li> <li>Various bug fixes.</li> </ul>
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>FLIR Reporter Professional scratchcard</li> </ul>
Packaging, weight	0.135 kg (0.3 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005286 4743254001893 (Estonia plant)
UPC-12	845188005498
Country of origin	Sweden
System requirements	
Operating system	<ul style="list-style-type: none"> <li>Windows XP, 32-bit</li> <li>Windows Vista, 32-bit</li> <li>Windows Vista, 64-bit</li> <li>Windows 7, 32-bit</li> <li>Windows 7, 64-bit</li> </ul>
Software requirements	<ul style="list-style-type: none"> <li>Office 2007 (32-bit)</li> <li>Office 2010 (32-bit)</li> </ul>

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)

**P/N: T198586**

© 2015, FLIR Systems, Inc.  
#T198586; r. 23306; en-US

- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: T198586

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198586  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

FLIR Reporter Professional is a powerful software for creating compelling and professional, fully customized, easy-to-interpret maintenance reports.

Professional Report Wizard guides you step-by-step in combining all IR inspection data - infrared and visual images, temperature measurements, and text notes – into a professional, easy-to-interpret maintenance report.

### Key features:

- Flexible report page design and layout for customized reports
- Use quick insert function to easily create custom report pages
- Fully integrated with standard Microsoft Word
- Generates reports in standard MS Office format and PDF-format
- Powerful temperature analysis
- Triple Fusion Picture-in-Picture (movable, sizable, scalable)
- Rapid report manager supporting automatic report generation by drag-and-drop
- Support for MSX (Multi-Spectral Dynamic Imaging) images
- Support for sketch images in both IR and visual with on/off toggling
- Support for same FOV ("Field of View Match")
- Grid settings
- Trending functionality
- Automatic link to Google™ Maps for images with GPS coordinates
- Automatic summary table for the report
- Fine tune images and make full temperature analysis directly in Microsoft Word
- Spell check
- Create your own formulas including measurement values from images
- Play radiometric sequences directly in the report
- Search functionality to quickly finding images for your report
- Panorama tool for combining several images to a larger image
- Support for GF series IR images
- Auto Update function
- Office 2003 (32-bit), Office 2007 (32-bit) and Office 2010 (32-bit)
- Windows 7 (32 and 64-bit), Windows Vista (32 and 64-bit)
- Support for METERLiNK™ data
- \*.docx compatibility

### Download

Download your copy of FLIR Reporter Professional here:

<http://support.flir.com/reporter>

**P/N: T198586**

© 2015, FLIR Systems, Inc.  
#T198586; r. 23306; en-US

Release notes	
Version	9.2
New features	<ul style="list-style-type: none"> <li>— News in 9.2: —</li> <li>Option to hide Zoom Viewer</li> <li>Option to extract Visual image from MSI/Fusion image.</li> <li>Support for the new FLIR Ex and Exx series cameras.</li> <li>Support for multispectral images.</li> <li>Support for auto-oriented images.</li> <li>Various bug fixes.</li> </ul>
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>FLIR Reporter Professional scratchcard</li> </ul>
Packaging, weight	0.135 kg (0.3 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005286 4743254001893 (Estonia plant)
UPC-12	845188005498
Country of origin	Sweden
System requirements	
Operating system	<ul style="list-style-type: none"> <li>Windows XP, 32-bit</li> <li>Windows Vista, 32-bit</li> <li>Windows Vista, 64-bit</li> <li>Windows 7, 32-bit</li> <li>Windows 7, 64-bit</li> </ul>
Software requirements	<ul style="list-style-type: none"> <li>Office 2007 (32-bit)</li> <li>Office 2010 (32-bit)</li> </ul>

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)

**P/N: T198586**

© 2015, FLIR Systems, Inc.  
#T198586; r. 23306; en-US

- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: T198584

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198584  
Commit: 25122  
Language: en-US  
Modified: 2015-04-29 09:51  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

FLIR Tools is a software suite specifically designed to provide an easy way to update your camera and create inspection reports.

#### Key features:

- Report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR).
- Manual IR/Visual Image Grouping
- Import images from your camera to your computer.
- Apply filters when searching for images.
- Search all text in images and text annotations.
- Store the five latest search criteria's.
- Lay out, move, and resize measurement tools on any infrared image.
- Create PDF imagesheets of any images of your choice.
- Add headers, footers, and logos to imagesheets.
- Create PDF reports for images of your choice.
- Add headers, footers, and logos to reports.
- Report editor (report page preview and snap to grid).
- Sort function (by date, groups sorted by path, and groups sorted by date).
- Browse and purchase infrared cameras, software, and accessories in the webshop.
- Software localized to 21 languages.
- Support for MSX (Multi-Spectral Dynamic Imaging ) Images
- Support for Sketch Images on both IR and Visual with toggling ON/OFF feature.
- Support for Same FOV ( Field of View Match )
- Display of Compass Information in Edit and in Report.
- Display of GPS Information in Edit and in Report.
- Microsoft Windows 7 (32- and 64-bit) and Windows 8 (32- and 64-bit)
- Camera update (applies to FLIR Ex, Kxx, Exx and T6xx series only).

### Download

This software is a freeware. To download, click the following link:

<http://support.flir.com/tools>

### Release notes

Version	5.2
New features in version 5.2	<ul style="list-style-type: none"> <li>• Support for auto-adjusting a region.</li> <li>• Support for zoom.</li> <li>• Various bug fixes.</li> </ul>
New features in version 5.1	<ul style="list-style-type: none"> <li>• Improved import performance.</li> <li>• Added support for video recording settings for FLIR Kxx series.</li> <li>• Added support for importing video files from FLIR Kxx series.</li> <li>• Added support for FLIR C2 camera.</li> <li>• Various bug fixes.</li> </ul>

**P/N: T198584**

© 2015, FLIR Systems, Inc.  
#T198584; r. 25122; en-US

Release notes	
New features in version 5.0	<ul style="list-style-type: none"> <li>Local object parameters for measurement tools.</li> <li>Save a report in-process with the ability to edit at a later time.</li> <li>Pull-down menus for text annotations.</li> <li>Variable playback speed for recordings.</li> <li>Show or hide min./max./avg. temperature, and hot/cold markers, for areas and lines.</li> <li>Smoother display for low-resolution images.</li> <li>UltraMax image enhancement.</li> <li>Dropping support for Windows XP.</li> <li>Various bug fixes.</li> </ul>
New features in version 4.1	<ul style="list-style-type: none"> <li>Previous/next in Edit mode.</li> <li>Clone in the Library.</li> <li>Extract visual photo from a multispectral image.</li> <li>Import *.mp4, *.seq, and *.csq files from the camera.</li> <li>Playback/edit *.seq and *.csq files.</li> <li>Scale enhancement for the FLIR GF3xx series.</li> <li>Auto resize of thumbnails during importing for the FLIR T6xx series.</li> <li>Grouping/ungrouping now added.</li> <li>Various bug fixes.</li> </ul>
New features in version 4.0	<ul style="list-style-type: none"> <li>Support for the new FLIR Ex and Exx series cameras.</li> <li>Interactive quick start guide when connecting a FLIR camera.</li> <li>Improved library view.</li> <li>Support for multispectral images.</li> <li>Support for auto-oriented images.</li> <li>Various bug fixes.</li> </ul>
New features in version 3.1	<ul style="list-style-type: none"> <li>Support for FLIR K series cameras.</li> <li>Interactive quick start guide when connecting a FLIR K series camera.</li> <li>Live image streaming from FLIR K series cameras.</li> <li>PC-side configuration of FLIR K series cameras.</li> <li>New report templates for DC images only added.</li> <li>Various bug fixes.</li> </ul>
New features in version 3.0	<ul style="list-style-type: none"> <li>Add folder to library.</li> <li>Support for isotherms and color alarms</li> <li>Image description for both IR and DC.</li> <li>Export functionality (*.avi, *.csv).</li> <li>Microsoft Windows 8 (32- and 64-bit)</li> <li>New web installer</li> <li>Various bug fixes.</li> </ul>
New features in version 2.2	<ul style="list-style-type: none"> <li>Camera tab: <ul style="list-style-type: none"> <li>Logging feature in Camera Tab</li> <li>Recording and playback of SEQ files.</li> </ul> </li> <li>Various bug fixes.</li> </ul>
New features in version 2.1	<ul style="list-style-type: none"> <li>New Text Comment Template Tab: <ul style="list-style-type: none"> <li>Create, Edit and Transfer templates to and from any FLIR Camera.</li> <li>Import and Export of Templates.</li> </ul> </li> <li>Support for MSX (Multi-Spectral Dynamic Imaging ) Images</li> <li>Support for Sketch Images on both IR and Visual with toggling ON/OFF feature.</li> <li>Support for Same FOV ( Field of View Match )</li> <li>Display of Compass Information in Edit and in Report.</li> <li>Display of GPS Information in Edit and in Report. <ul style="list-style-type: none"> <li>Direct Link to Google Maps for GPS Tagged images from Report.</li> </ul> </li> <li>Support for 3x5 and 6x5 A-series cameras</li> </ul>



**P/N: T198584**

© 2015, FLIR Systems, Inc.  
#T198584; r. 25122; en-US

Release notes	
New features in version 2.0	<ul style="list-style-type: none"> <li>Camera tab: <ul style="list-style-type: none"> <li>Camera connection with FLIR UVC cameras.</li> <li>Measurement data analysis.</li> <li>Plotting.</li> <li>Snapshot saving with text annotation and plot.</li> </ul> </li> <li>Performance improvement for large reports: can now create reports and imagesheets of up to 200 pages.</li> <li>Various bug fixes.</li> </ul>
New features in version 1.3	<ul style="list-style-type: none"> <li>Import from ix series cameras.</li> <li>Add and remove a form from a group.</li> <li>Text comments are now saved in the infrared image.</li> <li>The indexing engine can create groups from IR, DC, and text annotations when indexing the paths in the watch folder.</li> <li>Arrow tool in the report toolbar.</li> <li>Reorder pages.</li> <li>Text annotations can now be edited in the report.</li> <li>New report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR).</li> <li>New sample images.</li> </ul>
New features in version 1.2 SP1	<ul style="list-style-type: none"> <li>Various bug fixes.</li> </ul>
New features in version 1.2	<ul style="list-style-type: none"> <li>Search function: <ul style="list-style-type: none"> <li>Store the five latest search criterias.</li> <li>Search in all texts in images and text annotations.</li> </ul> </li> <li>Sort function: <ul style="list-style-type: none"> <li>By date.</li> <li>Groups sorted by by path.</li> <li>Groups sorted by date.</li> </ul> </li> <li>Report editor: <ul style="list-style-type: none"> <li>Report page preview.</li> <li>Snap to grid.</li> <li>Various bug fixes.</li> </ul> </li> </ul>
New features in version 1.1 SP1	<ul style="list-style-type: none"> <li>Extension to the camera update functionality.</li> <li>Various bug fixes</li> </ul>
New features in version 1.1	<ul style="list-style-type: none"> <li>Software localized to 21 languages.</li> <li>Camera update. (Exx, T6xx)</li> <li>Option to rotate an infrared image in the infrared editor.</li> </ul>

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Digital download, or</li> <li>CD-ROM</li> </ul>
Packaging, weight	0.106 kg (0.23 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005279
UPC-12	845188005481
Country of origin	Sweden

System requirements	
Operating system	<ul style="list-style-type: none"> <li>Windows XP, 32-bit</li> <li>Windows Vista, 32-bit</li> <li>Windows 7, 32-bit</li> <li>Windows 7, 64-bit</li> <li>Windows 8, 32-bit</li> <li>Windows 8, 64-bit</li> </ul>

**P/N: T198584**

© 2015, FLIR Systems, Inc.  
#T198584; r. 25122; en-US

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm

**P/N: T198584**

© 2015, FLIR Systems, Inc.  
#T198584; r. 25122; en-US

- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

**P/N: T198584**

© 2015, FLIR Systems, Inc.  
#T198584; r. 25122; en-US

- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72001-0101; FLIR C2

**P/N: T198583**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: T198583  
Commit: 25121  
Language: en-US  
Modified: 2015-04-29 09:50  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

Compared to FLIR Tools, FLIR Tools+ has the following features:

- Radiometric Panorama incl. MSX
- Radiometric IR Video Recording
- Advanced Reporting

FLIR Tools/Tools+ is a software suite specifically designed to provide an easy way to update your camera and create inspection reports.

FLIR Tools+ main features:

- Manual IR/Visual Image Grouping
- Radiometric Panorama incl. MSX
- Radiometric IR Video Recording
- Advanced Reporting - Microsoft Office 2007 (32bit), and 2010 (32bit) support
- Report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR).
- Import images from your camera to your computer.
- Apply filters when searching for images.
- Search all text in images and text annotations.
- Store the five latest search criteria's.
- Lay out, move, and resize measurement tools on any infrared image.
- Create PDF imagesheets of any images of your choice.
- Add headers, footers, and logos to imagesheets.
- Create PDF reports for images of your choice.
- Add headers, footers, and logos to reports.
- Report editor (report page preview and snap to grid).
- Sort function (by date, groups sorted by path, and groups sorted by date).
- Browse and purchase infrared cameras, software, and accessories in the webshop.
- Software localized to 21 languages.
- Support for MSX (Multi-Spectral Dynamic Imaging ) Images
- Support for Sketch Images on both IR and Visual with toggling ON/OFF feature.
- Support for Same FOV ( Field of View Match )
- Display of Compass Information in Edit and in Report.
- Display of GPS Information in Edit and in Report.
- Microsoft Windows 7 (32- and 64-bit) and Windows 8 (32- and 64-bit)
- Camera update (applies to FLIR Ex, Kxx, Exx and T6xx series only).

## Download

Download a 30-day evaluation version here:

<http://support.flir.com/toolsplus>

## Release notes

Version	5.2
New features in version 5.2	<ul style="list-style-type: none"> <li>• Support for auto-adjusting a region.</li> <li>• Support for zoom.</li> <li>• Express Microsoft Word reporting (*.docx).</li> <li>• Various bug fixes.</li> </ul>

**P/N: T198583**

© 2015, FLIR Systems, Inc.  
#T198583; r. 25121; en-US

Release notes	
New features in version 5.1	<ul style="list-style-type: none"> <li>Improved import performance.</li> <li>Added support for video recording settings for FLIR Kxx series.</li> <li>Added support for importing video files from FLIR Kxx series.</li> <li>Added support for FLIR C2 camera.</li> <li>Various bug fixes.</li> </ul>
New features in version 5.0	<ul style="list-style-type: none"> <li>Local object parameters for measurement tools.</li> <li>Save a report in-process with the ability to edit at a later time.</li> <li>Pull-down menus for text annotations.</li> <li>Variable playback speed for recordings.</li> <li>Show or hide min./max./avg. temperature, and hot/cold markers, for areas and lines.</li> <li>Smoother display for low-resolution images.</li> <li>UltraMax image enhancement.</li> <li>Dropping support for Windows XP.</li> <li>Various bug fixes.</li> </ul>
New features in version 4.1	<ul style="list-style-type: none"> <li>Previous/next in Edit mode.</li> <li>Clone in the Library.</li> <li>Extract visual photo from a multispectral image.</li> <li>Import *.mp4, *.seq, and *.csq files from the camera.</li> <li>Playback/edit *.seq and *.csq files.</li> <li>Scale enhancement for the FLIR GF3xx series.</li> <li>Auto resize of thumbnails during importing for the FLIR T6xx series.</li> <li>Grouping/ungrouping now added.</li> <li>Various bug fixes.</li> </ul>
New features in version 4.0	<ul style="list-style-type: none"> <li>Support for the new FLIR Ex and Exx series cameras.</li> <li>Interactive quick start guide when connecting a FLIR camera.</li> <li>Improved library view.</li> <li>Support for multispectral images.</li> <li>Support for auto-oriented images.</li> <li>Various bug fixes.</li> </ul>
New features in version 3.1	<ul style="list-style-type: none"> <li>Support for FLIR K series cameras.</li> <li>Interactive quick start guide when connecting a FLIR K series camera.</li> <li>Live image streaming from FLIR K series cameras.</li> <li>PC-side configuration of FLIR K series cameras.</li> <li>New report templates for DC images only added.</li> <li>Various bug fixes.</li> </ul>
New features in version 3.0	<ul style="list-style-type: none"> <li>Add folder to library.</li> <li>Support for isotherms and color alarms</li> <li>Image description for both IR and DC.</li> <li>Export functionality (*.avi, *.csv).</li> <li>Microsoft Windows 8 (32- and 64-bit)</li> <li>New web installer</li> <li>Radiometric panorama with MSX images.</li> <li>Advanced reports.</li> <li>Manual grouping/ungrouping of images.</li> <li>Various bug fixes.</li> </ul>
New features in version 2.2	<ul style="list-style-type: none"> <li>Camera tab: <ul style="list-style-type: none"> <li>Logging feature in Camera Tab</li> <li>Recording and playback of SEQ files.</li> </ul> </li> <li>Various bug fixes.</li> </ul>
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>FLIR Tools+ scratchcard</li> </ul>
Packaging, weight	0.059 kg (0.13 lb.)

**P/N: T198583**

© 2015, FLIR Systems, Inc.  
#T198583; r. 25121; en-US

Shipping information	
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	73325585378 4743254001442 (Estonia plant)
UPC-12	845188005580
Country of origin	Sweden
System requirements	
Operating system	<ul style="list-style-type: none"> <li>Windows XP, 32-bit</li> <li>Windows Vista, 32-bit</li> <li>Windows 7, 32-bit</li> <li>Windows 7, 64-bit</li> <li>Windows 8, 32-bit</li> <li>Windows 8, 64-bit</li> </ul>
Software requirements	<ul style="list-style-type: none"> <li>Office 2007, 32-bit</li> <li>Office 2010, 32-bit</li> <li>Office 2013, 32-bit</li> </ul>

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)

**P/N: T198583**

© 2015, FLIR Systems, Inc.  
#T198583; r. 25121; en-US

- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens



**P/N: T198583**

© 2015, FLIR Systems, Inc.  
#T198583; r. 25121; en-US

- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 63901-0101; FLIR E4
- 63905-0501; FLIR E5
- 63902-0202; FLIR E6
- 63903-0303; FLIR E8

## P/N: DSW-10000

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: DSW-10000  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

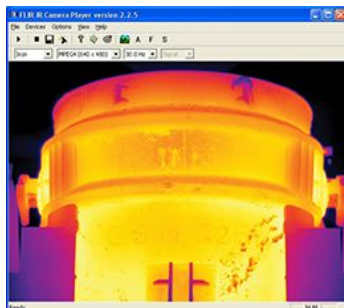
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
FLIR IR Camera Player is a PC-based remote control and viewer that you can use with cameras from FLIR Systems.	
You can perform one or more of the following with FLIR IR Camera Player:	
<ul style="list-style-type: none"> <li>Record a video stream from the camera.</li> <li>Save a frame from the video stream as a snapshot image (*.bmp).</li> <li>Autofocus, focus far, and focus near.</li> <li>Autoadjust the camera image.</li> <li>Freeze the camera image.</li> <li>Save a camera image in the camera.</li> <li>Change Color palette.</li> <li>Add an image description and a text comment to an image.</li> </ul>	
You connect a camera in one of the following ways:	
<ul style="list-style-type: none"> <li>Ethernet</li> <li>FireWire</li> <li>USB</li> </ul>	
Download	
This software is a freeware. To download, click the following link:	
<a href="http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=89">http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=89</a>	
Release notes	
Version	2.3.3
New features	<p>Main improvements in version 2.3.3:</p> <ul style="list-style-type: none"> <li>Added latest device drivers (1.9.1.0).</li> <li>Various bugfixes</li> </ul> <p>Main improvements in version 2.2.7:</p> <ul style="list-style-type: none"> <li>Added support for FLIR Ax5 series.</li> </ul>
System requirements	
Operating system	<ul style="list-style-type: none"> <li>Windows XP, 32-bit</li> <li>Windows Vista, 32-bit/64-bit</li> <li>Windows 7, 32-bit/64-bit</li> </ul>

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)

**P/N: DSW-10000**

© 2015, FLIR Systems, Inc.  
#DSW-10000; r. 24597; en-US

- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc

**P/N: DSW-10000**

© 2015, FLIR Systems, Inc.  
#DSW-10000; r. 24597; en-US

- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)



---

**P/N: DSW-10000**

© 2015, FLIR Systems, Inc.  
#DSW-10000; r. 24597; en-US

- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: APP-10002

### Copyright

© 2015, FLIR Systems, Inc.

All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: APP-10002

Commit: 24597

Language: en-US

Modified: 2015-04-09 13:38

Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.

27700 SW Parkway Ave.

Wilsonville, OR 97070

USA

Telephone: +1-503-498-3547

### Website

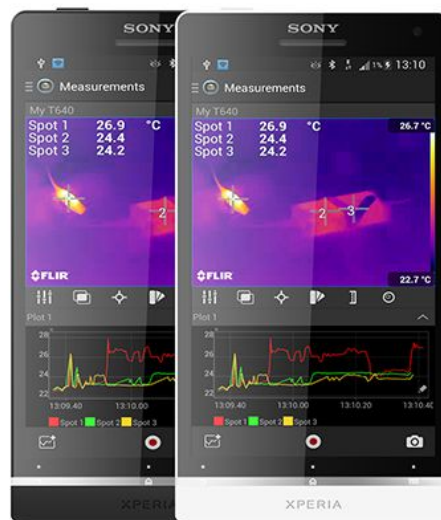
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description
FLIR Tools Mobile is an intuitive Android app for analyzing, managing, and distributing infrared images.
Key features:
<ul style="list-style-type: none"> <li>• Remote control</li> <li>• MSX</li> <li>• Images with sketch on DC and IR</li> <li>• Images with field of view follow</li> <li>• Editable text comments</li> <li>• Emissivity table</li> <li>• Import images from your Wi-Fi-enabled camera.</li> <li>• Connect and stream infrared images from the camera.</li> <li>• Connect and stream measurement data from FLIR Test &amp; Measurement meters</li> <li>• Lay out and move measurement tools on the image.</li> <li>• Read out temperature measurements.</li> <li>• Create and configure temporal plots based on results of measurement tools on the infrared image.</li> <li>• Log measurement data and export it as a *.csv file.</li> <li>• Save a measurement scenario as a data snapshot.</li> <li>• Zoom in on images.</li> <li>• On the Android device, remotely take snapshots when a camera is connected.</li> <li>• On the camera, take snapshots that will automatically be saved on the Android device.</li> <li>• Delete images on the Android device.</li> <li>• Display an image's GPS coordinates on Google Maps.</li> <li>• Create and e-mail reports.</li> <li>• Save images in the Android device photo library.</li> <li>• Send images to FTP sites and other file-sharing services (Dropbox, Box.net, etc.).</li> <li>• Display image information, e.g., object parameters, text comments, and file details.</li> <li>• Play back voice comments.</li> <li>• Change the level and span.</li> <li>• Change general settings in the app.</li> <li>• Change the palette.</li> </ul>
Download
The application can be downloaded from Android Market or Amazon Marketplace, see the link below.
<a href="https://market.android.com/details?id=com.flir.viewer">https://market.android.com/details?id=com.flir.viewer</a>

**P/N: APP-10002**

© 2015, FLIR Systems, Inc.  
#APP-10002; r. 24597; en-US

Release notes	
Version	3.4.0
New features	<p>Main improvements in version 3.4.0:</p> <ul style="list-style-type: none"> <li>• Support for *.csq files.</li> <li>• Various bug fixes.</li> </ul> <p>Main improvements in version 3.2.0:</p> <ul style="list-style-type: none"> <li>• Receive data logs from FLIR DM93.</li> <li>• Save or export data logs in new *.csv format.</li> <li>• Various bug fixes.</li> </ul> <p>Main improvements in version 3.1.0:</p> <ul style="list-style-type: none"> <li>• Added variable level of MSX alpha</li> <li>• Added Fusion Blending mode for images with possibility to adjust level</li> <li>• Stability fixes</li> <li>• Improved memory management</li> <li>• Modified internal handling of measurement results and displaying them.</li> </ul>
System requirements	
Operating system	<ul style="list-style-type: none"> <li>• Android 2.3 and later</li> </ul>

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)

**P/N: APP-10002**

© 2015, FLIR Systems, Inc.  
#APP-10002; r. 24597; en-US

- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)



## P/N: APP-10003

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: APP-10003  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

FLIR Tools Mobile lets professional thermographers use an iPad, iPhone, or iPod touch to see and capture live, streaming infrared video and stills from select FLIR cameras.

With FLIR Tools Mobile the camera can be stationed in one area and operated wirelessly from another – highly useful for IR inspections of energized equipment or performing IR surveys in hard-to-reach locations and harsh working environments. Streaming video and remote access also gives decision makers and others on your team a valuable opportunity to observe and collaborate in the thermal imaging process.

Using FLIR Tools Mobile, you can do one or more of the following:

- Import images from your infrared camera
- Lay out and move measurement tools on the image
- Read out temperature measurements
- Zoom in on images
- On the iPhone/iPad, remotely take snapshots when a camera is connected
- On the camera, take snapshots that will automatically be saved in the iPhone/iPad
- Delete any images on the iPhone/iPad
- Display an image's GPS coordinates on Google Maps
- Create and e-mail imagesheets
- Create and e-mail reports
- Print imagesheets and reports to any AirPrint-enabled printer
- Save images to iPhone/iPad photo library
- Send images to FTP sites and other file sharing services (Dropbox, Box.net, etc.)
- Display image information, such as object parameters, text comments, file information, etc.
- Play-back voice comments
- Change level and span
- Change general settings in the app
- Change palette

**P/N: APP-10003**

© 2015, FLIR Systems, Inc.  
#APP-10003; r. 24597; en-US

General description	
FLIR Tools Mobile lets you take control of the following features on selected cameras:	
<ul style="list-style-type: none"><li>• Remote control of your FLIR camera.</li><li>• Support for MSX (Multi-Spectral Dynamic Imaging) images.</li><li>• Support for sketch images in both IR and visual with on/off toggling.</li><li>• Support for same FOV ("Field of View Match").</li><li>• Editable text comments.</li><li>• Auto and manual focus</li><li>• Level and span</li><li>• Color palettes</li><li>• Temperature measurement analytics</li><li>• Spot</li><li>• Area box</li><li>• Circle</li><li>• Line</li><li>• Parameter settings</li><li>• Emissivity</li><li>• Reflected temperature</li><li>• Relative humidity</li><li>• Atmospheric temperature</li><li>• IR and visible light image blending</li><li>• Picture-in-picture</li><li>• Thermal fusion</li><li>• Image storage</li><li>• MPEG 4 video</li><li>• Radiometric JPEG stills</li></ul>	
Download	
The application can be downloaded from App Store, see the link below.	
<a href="http://itunes.apple.com/app/flir-tools/id511247887?mt=8">http://itunes.apple.com/app/flir-tools/id511247887?mt=8</a>	
Release notes	
Version	1.5.0
New features	<p>Main improvements in version 1.5.0:</p> <ul style="list-style-type: none"><li>• Updated for iOS7.</li><li>• Improved Library.</li></ul> <p>Main improvements in version 1.3.2:</p> <ul style="list-style-type: none"><li>• Added remote viewer mode for T4xx and Exx series.</li><li>• Improved support for anonymous FTP server.</li><li>• Improved image import from photo gallery.</li></ul> <p>Main improvements in version 1.3:</p> <ul style="list-style-type: none"><li>• Support for fusion images.</li><li>• Marking fusion images with the stacked icon in the library browser.</li><li>• Switching image modes while editing fusion images.</li><li>• Switch between fusion IR/DC and grouped images during preview.</li><li>• Support for landscape and portrait images.</li><li>• Image parameters can be modified only in edit mode.</li><li>• Support for FLIR Exx-series cameras.</li></ul>
System requirements	
Operating system	<ul style="list-style-type: none"><li>• iOS 4.0 or later</li></ul>
Hardware requirements	<ul style="list-style-type: none"><li>• iPhone</li><li>• iPad</li><li>• iPod</li></ul>

**Compatible with the following products**

- N/A

## P/N: APP-10004

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: APP-10004  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
FLIR Tools is a software specifically designed to provide an easy way to analyze infrared images and create inspection reports.	
Using FLIR Tools, you can do one or more of the following:	
<ul style="list-style-type: none"> <li>• Import images from your camera to your computer.</li> <li>• Search for images.</li> <li>• Lay out, move, and resize measurement tools on any infrared image.</li> <li>• Create PDF reports for images of your choice.</li> <li>• Add headers, footers, and logos to reports.</li> <li>• Create new report templates.</li> </ul>	
FLIR Tools lets you take control of the following features on selected cameras:	
<ul style="list-style-type: none"> <li>• Connect an infrared camera to FLIR Tools and display its live image stream.</li> <li>• When the camera is connected, lay out measurement tools, change parameters, create plots, etc.</li> </ul>	
Download	
The application can be downloaded from Mac App Store, see the link below.	
<a href="https://itunes.apple.com/app/flir-tools/id579348845?mt=12">https://itunes.apple.com/app/flir-tools/id579348845?mt=12</a>	
Release notes	
Version	2.1
New features	<p>Main improvements in version 2.1:</p> <ul style="list-style-type: none"> <li>• Support for thermal blending.</li> <li>• Support for groups and multispectral images.</li> <li>• Improved stability.</li> </ul> <p>Main improvements in version 2.0:</p> <ul style="list-style-type: none"> <li>• Connect an infrared camera to FLIR Tools and display its live image stream.</li> <li>• When the camera is connected, lay out measurement tools, change parameters, create plots, etc.</li> <li>• Create new report templates.</li> <li>• Various bug fixes.</li> </ul>
System requirements	
Operating system	<ul style="list-style-type: none"> <li>• OS X 10.7 or later,</li> </ul>
Hardware requirements	<ul style="list-style-type: none"> <li>• MacOS</li> </ul>

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)

**P/N: APP-10004**

© 2015, FLIR Systems, Inc.  
#APP-10004; r. 24597; en-US

- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: T199815

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T199815  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The Extended Warranty Package covers parts and labour for your IR camera, consumables not included.

FLIR Systems warrants its products to be free from defects caused by faulty material or poor workmanship, for a period specified above. NO PRODUCT IS WARRANTED TO BE MERCHANTABLE OR FIT FOR ANY PARTICULAR USE OR APPLICATION. The warranty is void if the buyer damages the item due to misuse, abuse, modification, processing, or integration with other items. FLIR Systems' maximum liability under this warranty is limited to the obligation to replace or, at its sole option, to credit Buyer's account up to the purchase price.

### Download

Contact info can be found at:

<http://support.flir.com>

### Compatible with the following products

- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)

## P/N: T199802

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T199802  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

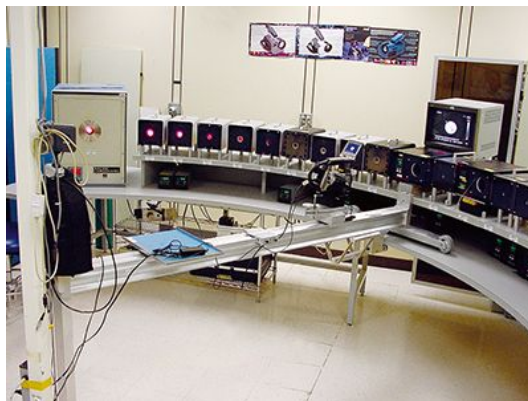
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

General Maintenance package offers a complete 14 points inspection and calibration service (for one lens combination). Shipping cost not included.

#### 14-point inspection program:

- Perform a complete operational check.
- Fusion calibration and laser alignment, when applicable.
- Verify all internal cable and PCB connections.
- Clean the viewfinder and check the optics.
- Upgrade the internal camera software to the latest revisions.
- Perform minor repairs.
- Verify and/or re-equalize as needed each temperature range for image uniformity.
- Verify standard lens calibration (optional: other or specially engineered lenses).
- Verify ambient temperature compensation as needed.
- Recalibration to ensure factory specifications are met.
- Calibrate temperature ranges up to +1500°C, when applicable.
- Perform a quality-approved acceptance test procedure.
- Provide a calibration label with the next due date.
- Provide a calibration certificate (optional: extended calibration certificate with measured values).

### Download

Contact info can be found at:

<http://support.flir.com>

### Compatible with the following products

- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)



## P/N: ITC-FEE-0120

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-FEE-0120  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Certification DIN EN ISO 9712 TT Category 1	
Course information	
Available languages	DACH only
Course details	
Duration	1 day

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)

---

**P/N: ITC-FEE-0120**

© 2015, FLIR Systems, Inc.

#ITC-FEE-0120; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5



## P/N: ITC-CER-6101

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-6101  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
DIN EN ISO 9712 TT Category 1 Certification course, excl. Certification, 1 pers.	
Course information	
Available languages	DACH only
Course details	
Duration	5 days

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)

---

**P/N: ITC-CER-6101**

© 2015, FLIR Systems, Inc.

#ITC-CER-6101; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-CER-6109

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-6109  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

DIN EN ISO 9712 TT Category 1 Certification course, excl. Certification, group up to 10 pers.

### Course information

Available languages	DACH only
---------------------	-----------

### Course details

Duration	5 days
----------	--------

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)

---

**P/N: ITC-CER-6109**

© 2015, FLIR Systems, Inc.

#ITC-CER-6109; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-ADV-3021

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3021  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This interdisciplinary course bridges the gap between IR thermography, background science and application theory. Being an overview course it deals with three main application fields of thermography: electrical, industrial, and building. For every application the participant will learn about the specific theory, typical faults, and how to detect them with a thermography camera. The student will also learn about the basics of condition monitoring, and maintenance.

Examples and case studies from the real world illustrate the course content and are discussed with the participants. Participants will be trained in discovering and identifying typical faults by typical thermal patterns.

### Content

- Introduction
- Electrical Applications (current, voltage, resistance, electrical systems, Ohm's law, some important properties of materials, typical faults, surveying methodology and criteria, safety, voltage limits)
- Industrial Applications (bearings, pumps, gears, belts, misalignment and couplings, gaskets, seals, rings, glands, steam traps, furnaces)
- Building Applications (definition of the building envelope, steady state thermal transfer in a building envelope, transient thermal transfer in a building envelope, applications)

### Course information

Available languages	
English	
Target group	<ul style="list-style-type: none"> <li>• Professional thermographers holding a Level 1 or a Level 2 certificate and</li> <li>• with interest in increasing their knowledge of different thermographic applications, and their limitations or</li> <li>• with a special interest in condition monitoring of machines</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Knows how to operate the camera</li> <li>• Knows how to report</li> <li>• Works in the industry with e.g. maintenance and condition monitoring or is a consultant</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Valid Level 1 thermography certificate</li> <li>• IR related education and experience</li> </ul>

**P/N: ITC-ADV-3021**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3021; r. 23306; en-US

Course details	
Duration	3 days (24 hours)
Structure	The course is divided into the three parts: Electrical Applications, Industrial Applications, and Building Applications. Theory sessions and case studies including interactive discussions alternate.
Exam	A final exam (30 multiple choice questions) will be written on the 3d day in the afternoon. In connection, the correct answers will be discussed by the instructor and the participants.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Attendance of 1 person</li> <li>• Might include more, such as lunch, depending on location and organizing entity</li> </ul>
Course organization	
ITC	The Advanced General Thermography Course is offered worldwide by ITC as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary.
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Advanced General Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)

**P/N: ITC-ADV-3021**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3021; r. 23306; en-US

- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC

---

**P/N: ITC-ADV-3021**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3021; r. 23306; en-US

- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°



## P/N: ITC-ADV-3029

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3029  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This interdisciplinary course bridges the gap between IR thermography, background science and application theory. Being an overview course it deals with three main application fields of thermography: electrical, industrial, and building. For every application the participant will learn about the specific theory, typical faults, and how to detect them with a thermography camera. The student will also learn about the basics of condition monitoring, and maintenance.

Examples and case studies from the real world illustrate the course content and are discussed with the participants. Participants will be trained in discovering and identifying typical faults by typical thermal patterns.

### Content

- Introduction
- Electrical Applications (current, voltage, resistance, electrical systems, Ohm's law, some important properties of materials, typical faults, surveying methodology and criteria, safety, voltage limits)
- Industrial Applications (bearings, pumps, gears, belts, misalignment and couplings, gaskets, seals, rings, glands, steam traps, furnaces)
- Building Applications (definition of the building envelope, steady state thermal transfer in a building envelope, transient thermal transfer in a building envelope, applications)

### Course information

Available languages	
English	
Target group	
<ul style="list-style-type: none"> <li>• Professional thermographers holding a Level 1 or a Level 2 certificate and</li> <li>• with interest in increasing their knowledge of different thermographic applications, and their limitations or</li> <li>• with a special interest in condition monitoring of machines</li> </ul>	
Typical student	
<ul style="list-style-type: none"> <li>• Knows how to operate the camera</li> <li>• Knows how to report</li> <li>• Works in the industry with e.g. maintenance and condition monitoring or is a consultant</li> </ul>	
Pre-requisites	
<ul style="list-style-type: none"> <li>• Valid Level 1 thermography certificate</li> <li>• IR related education and experience</li> </ul>	

**P/N: ITC-ADV-3029**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3029; r. 23306; en-US

Course details	
Duration	3 days (24 hours)
Structure	The course is divided into the three parts: Electrical Applications, Industrial Applications, and Building Applications. Theory sessions and case studies including interactive discussions alternate.
Exam	A final exam (30 multiple choice questions) will be written on the 3d day in the afternoon. In connection, the correct answers will be discussed by the instructor and the participants.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Attendance of a group up to 10 persons</li> <li>• Might include more, such as lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	The Advanced General Thermography Course is offered worldwide by ITC as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary.
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Advanced General Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)

**P/N: ITC-ADV-3029**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3029; r. 23306; en-US

- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL

---

**P/N: ITC-ADV-3029**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3029; r. 23306; en-US

- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-CON-1001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CON-1001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

ITC conference fee

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-CON-1001**

© 2015, FLIR Systems, Inc.

#ITC-CON-1001; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-CON-1001**

© 2015, FLIR Systems, Inc.

#ITC-CON-1001; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-EXP-0511

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-0511  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

ITC Getting Started with Thermography - attendance, 1 pers.

### Course information

Available languages	DE, FR, IT, NL, SE
---------------------	--------------------

### Course details

Duration	4 hours
----------	---------

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)



---

**P/N: ITC-EXP-0511**

© 2015, FLIR Systems, Inc.

#ITC-EXP-0511; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-EXP-0521

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-0521  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
ITC Getting Started with Thermography (evening or weekend) - attendance, 1 pers.	
Course information	
Available languages	DE, FR, IT, NL, SE
Course details	
Duration	4 hours

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)

---

**P/N: ITC-EXP-0521**

© 2015, FLIR Systems, Inc.

#ITC-EXP-0521; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-EXP-1021

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1021  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
An on-site training can be customized upon your needs. The participants will learn about IR thermography, inspections, measurements, applications, and reporting corresponding to the level needed for performing measurements and inspection in their working environment. The trainer will give useful advice on how to best implement IR thermography in your business.	
This partnumber is reserved for adding additional students to an on site class.	
Content	
<ul style="list-style-type: none"> <li>An on-site course can be any course, from a 1-day introduction to general thermography, over a customized application course to a complete certification course.</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Portable classroom labs</li> <li>Field training on the site in agreement with the customer</li> </ul>	
Course information	
Available languages	English, Dutch, German, French, Italian, Spanish, Swedish, other languages upon request
Target group	<ul style="list-style-type: none"> <li>Employees of a company or certain departments who would like to minimize travel costs and receive the training directly on their daily working site.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>
Course details	
Duration	Customized or according to the kind of course the in-house training is equivalent to.
Structure	Theory, camera handling, demos, practical labs and field training alternate.

**P/N: ITC-EXP-1021**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1021; r. 23306; en-US

Course details	
Exam	Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> </ul>
Course organization	
ITC	ITC In-house courses are offered worldwide by ITC and partners as listed. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	ITC In-house courses are lectured by ITC qualified instructors with experience in the relevant fields of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm

**P/N: ITC-EXP-1021**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1021; r. 23306; en-US

- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°

**P/N: ITC-EXP-1021**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1021; r. 23306; en-US

- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-1029

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1029  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
An on-site training can be customized upon your needs. The participants will learn about IR thermography, inspections, measurements, applications, and reporting corresponding to the level needed for performing measurements and inspection in their working environment. The trainer will give useful advice on how to best implement IR thermography in your business.	
Content	
<ul style="list-style-type: none"> <li>An on-site course can be any course, from a 1-day introduction to general thermography, over a customized application course to a complete certification course.</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Portable classroom labs</li> <li>Field training on the site in agreement with the customer</li> </ul>	
Course information	
Available languages	English, Dutch, German, French, Italian, Spanish, Swedish, other languages upon request
Target group	<ul style="list-style-type: none"> <li>Employees of a company or certain departments who would like to minimize travel costs and receive the training directly on their daily working site.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>
Course details	
Duration	Customized or according to the kind of course the in-house training is equivalent to.
Structure	Theory, camera handling, demos, practical labs and field training alternate.
Exam	Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.



**P/N: ITC-EXP-1029**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1029; r. 23306; en-US

Course details	
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by qualified ITC instructor</li> <li>• Training material in printed format</li> <li>• Diploma of attendance</li> <li>• Attendance of a group up to 10 persons</li> </ul>
Note	Course fee does not include cost for instructor's travelling or lodging. When organized at the customers' site, the customer is responsible for providing a suitable classroom and preferably also refreshments/lunch.
Course organization	
ITC	ITC In-house courses are offered worldwide by ITC and partners as listed. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	ITC In-house courses are lectured by ITC qualified instructors with experience in the relevant fields of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)

**P/N: ITC-EXP-1029**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1029; r. 23306; en-US

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL

**P/N: ITC-EXP-1029**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1029; r. 23306; en-US

- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-CER-5105

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5105  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 1 certified thermographer. The participant will learn about the basics of infrared, how to operate the camera under different conditions and for various purposes, how to do an appropriate judgement of the measurement situation in the field and how to identify potential error sources. After the class, the participant will be able to do IR inspections following written guidelines and to report the result of this inspection.

This partnumber is reserved for adding additional students to a level 1 on site class.

### Content

- Introduction to Thermography
- Camera Operation
- Basic physics of heat
- Basic physics of infrared
- Thermal pattern recognition and IR applications
- IR temperature measurement techniques
- Qualitative and quantitative thermography
- Inspection routines and reporting

### Student presentations

During the seminar, students will generate a small case study based on the lab exercises to be presented to the class.

### Labs

- Camera handling
- Level and Span
- Conduction pattern
- Forced convection
- Direct and indirect thermal measurement
- Thermal capacity
- Steady state and transient heat flow
- Evaporation and condensation
- Electrical application
- Emissivity and Reflected apparent temperature
- Spatial resolution
- Location and temperature measurement of a hot/cold spot
- Image transfer to the computer

**P/N: ITC-CER-5105**

© 2015, FLIR Systems, Inc.

#ITC-CER-5105; r. 23306; en-US

Course information	
Available languages	Chinese, Danish, Dutch, English, Finish, French, German, Greek, Hebrew, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (bra.), Romanian, Russian, Serbo-Croatian, Spanish, Swedish, Thai
Target group	<ul style="list-style-type: none"> <li>Practical user</li> <li>This course is designed for beginners in thermography with some experience in camera handling and limited IR knowledge, who want to take their first step to become a professional thermographer and want to qualify as a Level 1 certified thermographer.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>having already some basic experience with IR thermography,</li> <li>knowing the basic functions of the camera,</li> <li>who wants to become a certified thermographer in order to gain a competitive advantage or who needs the certifications because of legal reasons or company internal regulations.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Be familiar with the basic operation of an infrared camera</li> <li>Have the recommended experience within thermography according to relevant standards</li> </ul>

Course details	
Duration	35 – 40 hours
Structure	Theory and camera practice (hands-on) alternate every day, additional labs and software exercises at some days.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>Attendance of 1 person</li> <li>Might include more, such as lunch, depending on location and organizing entity</li> </ul>
Note	Only for non-EURO, non-SEK, non NOK, non- £, -non CHF countries

Course organization	
ITC	The Level 1 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)

**P/N: ITC-CER-5105**

© 2015, FLIR Systems, Inc.

#ITC-CER-5105; r. 23306; en-US

- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc

**P/N: ITC-CER-5105**

© 2015, FLIR Systems, Inc.

#ITC-CER-5105; r. 23306; en-US

- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-CER-5101

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5101  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 1 certified thermographer. The participant will learn about the basics of infrared, how to operate the camera under different conditions and for various purposes, how to do an appropriate judgement of the measurement situation in the field and how to identify potential error sources. After the class, the participant will be able to do IR inspections following written guidelines and to report the result of this inspection.

### Content

- Introduction to Thermography
- Camera Operation
- Basic physics of heat
- Basic physics of infrared
- Thermal pattern recognition and IR applications
- IR temperature measurement techniques
- Qualitative and quantitative thermography
- Inspection routines and reporting

### Student presentations

During the seminar, students will generate a small case study based on the lab exercises to be presented to the class.

### Labs

- Camera handling
- Level and Span
- Conduction pattern
- Forced convection
- Direct and indirect thermal measurement
- Thermal capacity
- Steady state and transient heat flow
- Evaporation and condensation
- Electrical application
- Emissivity and Reflected apparent temperature
- Spatial resolution
- Location and temperature measurement of a hot/cold spot
- Image transfer to the computer



**P/N: ITC-CER-5101**

© 2015, FLIR Systems, Inc.

#ITC-CER-5101; r. 23306; en-US

Course information	
Available languages	Chinese, Danish, Dutch, English, Finish, French, German, Greek, Hebrew, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (bra.), Romanian, Russian, Serbo-Croatian, Spanish, Swedish, Thai
Target group	<ul style="list-style-type: none"> <li>Practical user</li> <li>This course is designed for beginners in thermography with some experience in camera handling and limited IR knowledge, who want to take their first step to become a professional thermographer and want to qualify as a Level 1 certified thermographer.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>having already some basic experience with IR thermography,</li> <li>knowing the basic functions of the camera,</li> <li>who wants to become a certified thermographer in order to gain a competitive advantage or who needs the certifications because of legal reasons or company internal regulations.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Be familiar with the basic operation of an infrared camera</li> <li>Have the recommended experience within thermography according to relevant standards</li> </ul>

Course details	
Duration	35 – 40 hours
Structure	Theory and camera practice (hands-on) alternate every day, additional labs and software exercises at some days.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>Attendance of 1 person</li> <li>Might include more, such as lunch, depending on location and organizing entity</li> </ul>

Course organization	
ITC	The Level 1 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)

**P/N: ITC-CER-5101**

© 2015, FLIR Systems, Inc.

#ITC-CER-5101; r. 23306; en-US

- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)

**P/N: ITC-CER-5101**

© 2015, FLIR Systems, Inc.

#ITC-CER-5101; r. 23306; en-US

- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-CER-5109

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5109  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 1 certified thermographer. The participant will learn about the basics of infrared, how to operate the camera under different conditions and for various purposes, how to do an appropriate judgement of the measurement situation in the field and how to identify potential error sources. After the class, the participant will be able to do IR inspections following written guidelines and to report the result of this inspection.

### Content

- Introduction to Thermography
- Camera Operation
- Basic physics of heat
- Basic physics of infrared
- Thermal pattern recognition and IR applications
- IR temperature measurement techniques
- Qualitative and quantitative thermography
- Inspection routines and reporting

### Student presentations

During the seminar, students will generate a small case study based on the lab exercises to be presented to the class.

### Labs

- Camera handling
- Level and Span
- Conduction pattern
- Forced convection
- Direct and indirect thermal measurement
- Thermal capacity
- Steady state and transient heat flow
- Evaporation and condensation
- Electrical application
- Emissivity and Reflected apparent temperature
- Spatial resolution
- Location and temperature measurement of a hot/cold spot
- Image transfer to the computer

**P/N: ITC-CER-5109**

© 2015, FLIR Systems, Inc.

#ITC-CER-5109; r. 23306; en-US

Course information	
Available languages	Chinese, Danish, Dutch, English, Finish, French, German, Greek, Hebrew, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (bra.), Romanian, Russian, Serbo-Croatian, Spanish, Swedish, Thai
Target group	<ul style="list-style-type: none"> <li>• Practical user</li> <li>• This course is designed for beginners in thermography with some experience in camera handling and limited IR knowledge, who want to take their first step to become a professional thermographer and want to qualify as a Level 1 certified thermographer.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>• having already some basic experience with IR thermography,</li> <li>• knowing the basic functions of the camera,</li> <li>• who wants to become a certified thermographer in order to gain a competitive advantage or who needs the certifications because of legal reasons or company internal regulations.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Be familiar with the basic operation of an infrared camera</li> <li>• Have the recommended experience within thermography according to relevant standards</li> </ul>

Course details	
Duration	35 – 40 hours
Structure	Theory and camera practice (hands-on) alternate every day, additional labs and software exercises at some days.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>• Attendance of a group up to 10 persons</li> <li>• Might include more, such as lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>

Course organization	
ITC	The Level 1 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)

**P/N: ITC-CER-5109**

© 2015, FLIR Systems, Inc.

#ITC-CER-5109; r. 23306; en-US

- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310

**P/N: ITC-CER-5109**

© 2015, FLIR Systems, Inc.

#ITC-CER-5109; r. 23306; en-US

- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-CER-5205

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5205  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 2 certified thermographer. The participant will learn about topics in infrared thermography to increase the knowledge about infrared physics, heat science, infrared measurement equipment and its application. As a Level 2 thermographer the participant shall provide guidance to category 1 personnel in the areas of equipment selection, techniques, limitations, data analysis, corrective actions and reporting.

This partnumber is reserved for adding additional students to a level 2 on site class.

### Content

- Thermal science
- Heat transfer
- Temperature measurement
- Infrared science
- IR equipment and applications

### Student presentations

During the seminar, students shall present a prepared case study to the class. The maximum duration (excl. discussion) should be 7 minutes and the maximum number of 7 slides should not be exceeded.

### Labs (Note: Labs marked "(M)" are mandatory)

- Newton's law (class lab) (M)
- Advanced emissivity measurement (M)
- Variation of emissivity with the angle (M)
- Transient thermal transfer
- Indirect power measurement (M)
- IR-window transmission (M)
- Slit Response Function
- Hole Response Function (M)
- Parallel circuits

### Course information

Available languages	Dutch, English, German, French, Italian, Portuguese (bra.), Spanish, Swedish
Target group	<ul style="list-style-type: none"> <li>• Professional user</li> <li>• This course is designed for thermographers holding a Level 1 certificate, who want to increase their knowledge about IR thermography and who want to qualify as a Level 2 certified thermographer.</li> </ul>



**P/N: ITC-CER-5205**

© 2015, FLIR Systems, Inc.

#ITC-CER-5205; r. 23306; en-US

Course information	
Typical student	<ul style="list-style-type: none"> <li>A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>having several months of professional experience within thermography,</li> <li>versed in camera operation and reporting,</li> <li>holding a Level 1 certificate,</li> <li>who needs the Level 2 Certification for guidance and supervision of other thermographers or is interested in deeper understanding of IR thermography.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Valid Level 1 thermography certificate,</li> <li>Recommended experience within thermography according to relevant standards,</li> <li>Prepared case study to be presented at the Level 2 course and submitted towards qualification at course closing.</li> </ul>
Course details	
Duration	40 hours
Structure	Theory, camera practice (hands-on), and prepared case studies alternate every day.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>Attendance of 1 person</li> <li>Might include more, such as lunch, depending on location and organizing entity.</li> </ul>
Note	Only for non-EURO, non-SEK, non NOK, non- £, -non CHF countries
Course organization	
ITC	The Level 2 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in T560393 Courses offered by ITC partners. Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)

**P/N: ITC-CER-5205**

© 2015, FLIR Systems, Inc.

#ITC-CER-5205; r. 23306; en-US

- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°

**P/N: ITC-CER-5205**

© 2015, FLIR Systems, Inc.

#ITC-CER-5205; r. 23306; en-US

- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-CER-5201

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5201  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 2 certified thermographer. The participant will learn about topics in infrared thermography to increase the knowledge about infrared physics, heat science, infrared measurement equipment and its application. As a Level 2 thermographer the participant shall provide guidance to category 1 personnel in the areas of equipment selection, techniques, limitations, data analysis, corrective actions and reporting.

#### Content

- Thermal science
- Heat transfer
- Temperature measurement
- Infrared science
- IR equipment and applications

#### Student presentations

During the seminar, students shall present a prepared case study to the class. The maximum duration (excl. discussion) should be 7 minutes and the maximum number of 7 slides should not be exceeded.

#### Labs (Note: Labs marked "(M)" are mandatory)

- Newton's law (class lab) (M)
- Advanced emissivity measurement (M)
- Variation of emissivity with the angle (M)
- Transient thermal transfer
- Indirect power measurement (M)
- IR-window transmission (M)
- Slit Response Function
- Hole Response Function (M)
- Parallel circuits

### Course information

#### Available languages

Dutch, English, German, French, Italian, Portuguese (bra.), Spanish, Swedish

#### Target group

- Professional user
- This course is designed for thermographers holding a Level 1 certificate, who want to increase their knowledge about IR thermography and who want to qualify as a Level 2 certified thermographer.

**P/N: ITC-CER-5201**

© 2015, FLIR Systems, Inc.

#ITC-CER-5201; r. 23306; en-US

Course information	
Typical student	<ul style="list-style-type: none"> <li>A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>having several months of professional experience within thermography,</li> <li>versed in camera operation and reporting,</li> <li>holding a Level 1 certificate,</li> <li>who needs the Level 2 Certification for guidance and supervision of other thermographers or is interested in deeper understanding of IR thermography.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Valid Level 1 thermography certificate,</li> <li>Recommended experience within thermography according to relevant standards,</li> <li>Prepared case study to be presented at the Level 2 course and submitted towards qualification at course closing.</li> </ul>
Course details	
Duration	40 hours
Structure	Theory, camera practice (hands-on), and prepared case studies alternate every day.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>Attendance of 1 person</li> <li>Might include more, such as lunch, depending on location and organizing entity.</li> </ul>
Course organization	
ITC	The Level 2 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in T560393 Courses offered by ITC partners. Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)

**P/N: ITC-CER-5201**

© 2015, FLIR Systems, Inc.

#ITC-CER-5201; r. 23306; en-US

- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°

**P/N: ITC-CER-5201**

© 2015, FLIR Systems, Inc.

#ITC-CER-5201; r. 23306; en-US

- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-CER-5209

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5209  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 2 certified thermographer. The participant will learn about topics in infrared thermography to increase the knowledge about infrared physics, heat science, infrared measurement equipment and its application. As a Level 2 thermographer the participant shall provide guidance to category 1 personnel in the areas of equipment selection, techniques, limitations, data analysis, corrective actions and reporting.

### Content

- Thermal science
- Heat transfer
- Temperature measurement
- Infrared science
- IR equipment and applications

### Student presentations

During the seminar, students shall present a prepared case study to the class. The maximum duration (excl. discussion) should be 7 minutes and the maximum number of 7 slides should not be exceeded.

### Labs (Note: Labs marked "(M)" are mandatory)

- Newton's law (class lab) (M)
- Advanced emissivity measurement (M)
- Variation of emissivity with the angle (M)
- Transient thermal transfer
- Indirect power measurement (M)
- IR-window transmission (M)
- Slit Response Function
- Hole Response Function (M)
- Parallel circuits

### Course information

#### Available languages

Dutch, English, German, French, Italian, Portuguese (bra.), Spanish, Swedish

#### Target group

- Professional user
- This course is designed for thermographers holding a Level 1 certificate, who want to increase their knowledge about IR thermography and who want to qualify as a Level 2 certified thermographer.



**P/N: ITC-CER-5209**

© 2015, FLIR Systems, Inc.

#ITC-CER-5209; r. 23306; en-US

Course information	
Typical student	<ul style="list-style-type: none"> <li>A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>having several months of professional experience within thermography,</li> <li>versed in camera operation and reporting,</li> <li>holding a Level 1 certificate,</li> <li>who needs the Level 2 Certification for guidance and supervision of other thermographers or is interested in deeper understanding of IR thermography.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Valid Level 1 thermography certificate,</li> <li>Recommended experience within thermography according to relevant standards,</li> <li>Prepared case study to be presented at the Level 2 course and submitted towards qualification at course closing.</li> </ul>
Course details	
Duration	40 hours
Structure	Theory, camera practice (hands-on), and prepared case studies alternate every day.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as lunch, instructor's travel expenses, etc. depending on location and organizing entity.</li> </ul>
Course organization	
ITC	The Level 2 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in T560393 Courses offered by ITC partners. Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)

**P/N: ITC-CER-5209**

© 2015, FLIR Systems, Inc.

#ITC-CER-5209; r. 23306; en-US

- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°

**P/N: ITC-CER-5209**

© 2015, FLIR Systems, Inc.

#ITC-CER-5209; r. 23306; en-US

- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-PRA-2011

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-PRA-2011  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

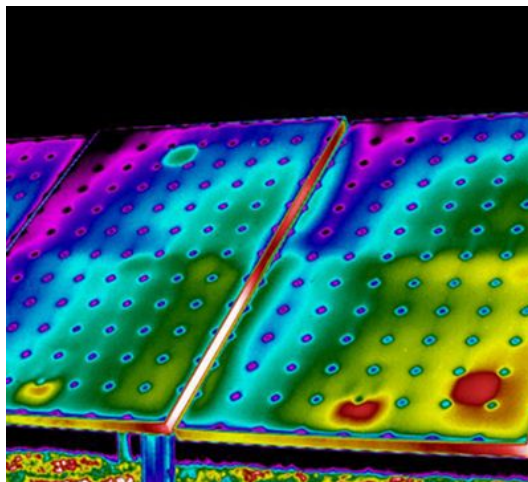
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course gives a general introduction to IR thermography and an overview on its specific use for inspections of photovoltaic solar systems.

During the first day, you learn about the basics of thermography, how a thermal camera works, and how to use it correctly. The second day starts with the basics of photovoltaic solar systems and solar panel installations. You learn about IR metrological particularities that are critical for solar panel inspections with a thermal camera, how to interpret the displayed thermal images, and in which way they can be associated to typical problems and faults. Emphasis is put on case studies, selected from the field, as well as practical exercises.

### Content

- Basics of thermography (radiation, spectral waveband, influences of the atmosphere)
- IR camera: principle, design and operation (FPA, measurement ranges, thermal tuning: level and span, color palettes)
- IR measurement technique: measurement parameters (emissivity, radiation from the environment, distance, relative humidity, atmospheric temperature)
- IR Camera figures of merit: resolution limits (thermal, spatial, time related)
- Practical exercises
- Basics of photovoltaic solar systems (terminology, design, principle of operation, module types)
- Solar panel installation: connection types (string, bypass diodes, shadowing)
- IR metrological particularity (spectral bands, inspection conditions, spatial resolution, camera positioning and angle)
- Typical thermal readouts (examples, causes and interpretation – defect/no defect, practical exercises)

### Course information

Available languages	English, French, German, Swedish, Italian, Dutch, Spanish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in the use of IR thermography for the inspection of photovoltaic solar systems.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person working with maintenance or installation of solar panels.</li> <li>• Thermographers familiar with electrical inspections and interested in solar panel inspections.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic knowledge in electrical installations or another technical field.</li> </ul>

### Course details

Duration	2 days
Structure	Theory, camera handling, demos and practical labs alternate.

**P/N: ITC-PRA-2011**

© 2015, FLIR Systems, Inc.

#ITC-PRA-2011; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by qualified ITC instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Might include more, such as lunch, depending on location</li> </ul>
Course organization	
ITC	The "ITC Practical Course Solar panel inspection" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC or ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Practical Course Solar panel inspection" is lectured by qualified ITC instructors with special experience in the field of solar panel installations.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5



---

**P/N: ITC-PRA-2011**

© 2015, FLIR Systems, Inc.

#ITC-PRA-2011; r. 23306; en-US

- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-PRA-2019

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-PRA-2019  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

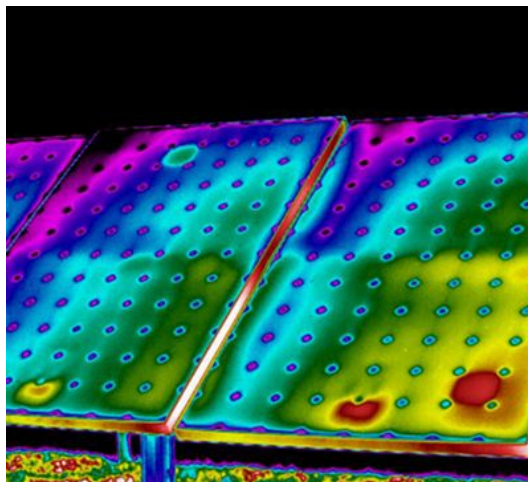
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course gives a general introduction to IR thermography and an overview on its specific use for inspections of photovoltaic solar systems.

During the first day, you learn about the basics of thermography, how a thermal camera works, and how to use it correctly. The second day starts with the basics of photovoltaic solar systems and solar panel installations. You learn about IR metrological particularities that are critical for solar panel inspections with a thermal camera, how to interpret the displayed thermal images, and in which way they can be associated to typical problems and faults. Emphasis is put on case studies, selected from the field, as well as practical exercises.

### Content

- Basics of thermography (radiation, spectral waveband, influences of the atmosphere)
- IR camera: principle, design and operation (FPA, measurement ranges, thermal tuning: level and span, color palettes)
- IR measurement technique: measurement parameters (emissivity, radiation from the environment, distance, relative humidity, atmospheric temperature)
- IR Camera figures of merit: resolution limits (thermal, spatial, time related)
- Practical exercises
- Basics of photovoltaic solar systems (terminology, design, principle of operation, module types)
- Solar panel installation: connection types (string, bypass diodes, shadowing)
- IR metrological particularity (spectral bands, inspection conditions, spatial resolution, camera positioning and angle)
- Typical thermal readouts (examples, causes and interpretation – defect/no defect, practical exercises)

### Course information

Available languages	English, French, German, Swedish, Italian, Dutch, Spanish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in the use of IR thermography for the inspection of photovoltaic solar systems.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person working with maintenance or installation of solar panels.</li> <li>• Thermographers familiar with electrical inspections and interested in solar panel inspections.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic knowledge in electrical installations or another technical field.</li> </ul>

### Course details

Duration	2 days
Structure	Theory, camera handling, demos and practical labs alternate.
Exam	None

**P/N: ITC-PRA-2019**

© 2015, FLIR Systems, Inc.

#ITC-PRA-2019; r. 23306; en-US

Course details	
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by qualified ITC instructor</li> <li>• Training material in printed format</li> <li>• Diploma of attendance</li> <li>• Attendance of a group up to 10 persons</li> <li>• Might include more, such as refreshments or lunch, depending on location.</li> </ul>
Note	Course fee does not include cost for instructor's travelling or lodging.
Course organization	
ITC	The "ITC Practical Course Solar panel inspection" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC or ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Practical Course Solar panel inspection" is lectured by qualified ITC instructors with special experience in the field of solar panel installations.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3





---

**P/N: ITC-PRA-2019**

© 2015, FLIR Systems, Inc.

#ITC-PRA-2019; r. 23306; en-US

- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-2041

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2041  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course gives a general introduction to IR thermography and an overview on its specific use for inspections of electrical systems. It aims at giving you clues on what you can do with your camera.

During the first day, you learn the basics of thermography and how to use your camera the best way. The second day you will start with a brief reminder of thermal transfers before you learn about electrical systems and components, material properties, typical problems and faults. Emphasis is put on case studies, selected from the field.

### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- IR Camera handling
- Basics of heat transfer
- Electrical systems
- Important properties of material
- Most common problems
- Case studies
- Common mistakes
- Application guidelines
- Data analysis and reports

### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement
- Electrical application labs

### Course information

Available languages	English, French, German, Swedish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in IR thermography and electrical applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person working with maintenance or installation of electrical systems</li> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> <li>• Students and pupils with thermography and electrical application related projects</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>

**P/N: ITC-EXP-2041**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2041; r. 23306; en-US

Course details	
Duration	2 days
Structure	Theory, camera handling, demos and practical labs alternate.
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by qualified ITC instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Might include more, such as lunch, depending on location</li> </ul>
Course organization	
ITC	The "ITC Short Course Electrical Thermography" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Electrical Thermography" is lectured by qualified ITC instructors with special experience in the field of electrical installations.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)



---

**P/N: ITC-EXP-2041**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2041; r. 23306; en-US

- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-2049

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2049  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course gives a general introduction to IR thermography and an overview on its specific use for inspections of electrical systems. It aims at giving you clues on what you can do with your camera.

During the first day, you learn the basics of thermography and how to use your camera the best way. The second day you will start with a brief reminder of thermal transfers before you learn about electrical systems and components, material properties, typical problems and faults. Emphasis is put on case studies, selected from the field.

### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- IR Camera handling
- Basics of heat transfer
- Electrical systems
- Important properties of material
- Most common problems
- Case studies
- Common mistakes
- Application guidelines
- Data analysis and reports

### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement
- Electrical application labs

### Course information

Available languages	English, French, German, Swedish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in IR thermography and electrical applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person working with maintenance or installation of electrical systems</li> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> <li>• Students and pupils with thermography and electrical application related projects</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>

**P/N: ITC-EXP-2049**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2049; r. 23306; en-US

Course details	
Duration	2 days
Structure	Theory, camera handling, demos and practical labs alternate.
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by qualified ITC instructor</li> <li>• Training material in printed format</li> <li>• Diploma of attendance</li> <li>• Attendance of a group up to 10 persons</li> <li>• Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	The "ITC Short Course Electrical Thermography" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Electrical Thermography" is lectured by qualified ITC instructors with special experience in the field of electrical installations.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)



---

**P/N: ITC-EXP-2049**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2049; r. 23306; en-US

- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-1019

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1019  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This is a full one day course for beginners and everybody interested in IR thermography and its applications. The course covers the basics of IR theory and includes demos, camera hand-on and practical exercises using relevant key labs.

#### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- Introduction to electrical and building inspections
- IR Camera handling
- Data analysis and reports

#### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement

### Course information

Available languages	English, French, German, Swedish, Danish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in IR thermography and its applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> <li>• A person who starts to use IR cameras at work</li> <li>• Students and pupils with thermography related projects</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>

### Course details

Duration	1 day
Structure	Theory, camera handling and demos in the morning. Practical labs in the afternoon.



**P/N: ITC-EXP-1019**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1019; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	The "ITC Short Course Introduction to Thermography" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Introduction to Thermography" is lectured by qualified ITC instructors with long time experience in the various fields of thermography.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)

**P/N: ITC-EXP-1019**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1019; r. 23306; en-US

- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC



---

**P/N: ITC-EXP-1019**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1019; r. 23306; en-US

- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-1011

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1011  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This is a full one day course for beginners and everybody interested in IR thermography and its applications. The course covers the basics of IR theory and includes demos, camera hand-on and practical exercises using relevant key labs.

### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- Introduction to electrical and building inspections
- IR Camera handling
- Data analysis and reports

### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement

### Course information

Available languages	English, French, German, Swedish, Danish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in IR thermography and its applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> <li>• A person who starts to use IR cameras at work</li> <li>• Students and pupils with thermography related projects</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>

### Course details

Duration	1 day
Structure	Theory, camera handling and demos in the morning. Practical labs in the afternoon.

**P/N: ITC-EXP-1011**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1011; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>
Course organization	
ITC	The "ITC Short Course Introduction to Thermography" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Introduction to Thermography" is lectured by qualified ITC instructors with long time experience in the various fields of thermography.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)

**P/N: ITC-EXP-1011**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1011; r. 23306; en-US

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL

---

**P/N: ITC-EXP-1011**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1011; r. 23306; en-US

- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-SOW-0001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-SOW-0001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

These courses are for users of FLIR software like FLIR Reporter Professional or FLIR ResearchIR. Please observe that content and labs depend on the software used.

#### Content

- System requirements
- Configuration
- Analyzing functions
- Templates
- Reporting functions
- Data exchange

#### Labs

- System set up
- Data import
- Data analysis
- Creating templates
- Creating reports
- Exporting data
- Triggering

### Course information

Available languages	English, French, German, other languages upon request
Target group	<ul style="list-style-type: none"> <li>• Persons interested in, or users, of the specific software.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Consultants interested in reporting</li> <li>• Building inspectors with reporting needs</li> <li>• R&amp;D staff interested in advanced data analysis</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Laptop with installed software full version or 30 day demo (download on <a href="http://www.flir.com">www.flir.com</a>)</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic knowledge about thermography and related parameters.</li> </ul>

### Course details

Duration	Depends on software.
Structure	Short system introduction, then demos and practical exercises.



**P/N: ITC-SOW-0001**

© 2015, FLIR Systems, Inc.  
#ITC-SOW-0001; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>
Course organization	
ITC	Software courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Software courses are lectured by ITC qualified instructors experienced in usage of the software being subject of the class.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)

**P/N: ITC-SOW-0001**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0001; r. 23306; en-US

- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°

**P/N: ITC-SOW-0001**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0001; r. 23306; en-US

- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-SOW-0009

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-SOW-0009  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
These courses are for users of FLIR software like FLIR Reporter Professional or FLIR ResearchIR. Please observe that content and labs depend on the software used.	
Content	
<ul style="list-style-type: none"> <li>System requirements</li> <li>Configuration</li> <li>Analyzing functions</li> <li>Templates</li> <li>Reporting functions</li> <li>Data exchange</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>System set up</li> <li>Data import</li> <li>Data analysis</li> <li>Creating templates</li> <li>Creating reports</li> <li>Exporting data</li> <li>Triggering</li> </ul>	
Course information	
Available languages	English, French, German, other languages upon request
Target group	<ul style="list-style-type: none"> <li>Persons interested in, or users, of the specific software.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Consultants interested in reporting</li> <li>Building inspectors with reporting needs</li> <li>R&amp;D staff interested in advanced data analysis</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Laptop with installed software full version or 30 day demo (download on <a href="http://www.flir.com">www.flir.com</a>)</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Basic knowledge about thermography and related parameters.</li> </ul>
Course details	
Duration	Depends on software.
Structure	Short system introduction, then demos and practical exercises.

**P/N: ITC-SOW-0009**

© 2015, FLIR Systems, Inc.  
#ITC-SOW-0009; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	Software courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Software courses are lectured by ITC qualified instructors experienced in usage of the software being subject of the class.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm

**P/N: ITC-SOW-0009**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0009; r. 23306; en-US

- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°

**P/N: ITC-SOW-0009**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0009; r. 23306; en-US

- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-1001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	1 day
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>



**P/N: ITC-EXP-1001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1001; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-1001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1001; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-1001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1001; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-1009

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1009  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	1 day
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-1009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1009; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-1009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1009; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-1009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1009; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-2001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	2 days
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>



**P/N: ITC-EXP-2001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2001; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-2001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2001; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-2001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2001; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-2009

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2009  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	2 days
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-2009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2009; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-2009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2009; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-2009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2009; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-3001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-3001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	3 days
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>



**P/N: ITC-EXP-3001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3001; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-3001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3001; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

---

**P/N: ITC-EXP-3001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3001; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-3009

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-3009  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	3 days
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-3009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3009; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-3009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3009; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-3009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3009; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-SOW-1001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-SOW-1001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

ITC Training FLIR Software - attendance 1 pers. (1 day)

### Course details

Duration	1 day
----------	-------

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)





---

**P/N: ITC-SOW-1001**

© 2015, FLIR Systems, Inc.

#ITC-SOW-1001; r. 23306; en-US

- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-SOW-2001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-SOW-2001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

ITC Training FLIR Software - attendance 1 pers. (2 days)

### Course details

Duration	2 days
----------	--------

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)



---

**P/N: ITC-SOW-2001**

© 2015, FLIR Systems, Inc.

#ITC-SOW-2001; r. 23306; en-US

- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TFT-0100

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TFT-0100  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

ITC travel time for instructor

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TFT-0100**

© 2015, FLIR Systems, Inc.  
#ITC-TFT-0100; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TFT-0100**

© 2015, FLIR Systems, Inc.  
#ITC-TFT-0100; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-FEE-0130

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-FEE-0130  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
EN - Repeat Certification EN473 IT Category 1	
Course information	
Available languages	DACH only
Course details	
Duration	1 day

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)

---

**P/N: ITC-FEE-0130**

© 2015, FLIR Systems, Inc.

#ITC-FEE-0130; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5



## P/N: ITC-TOL-1003

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1003  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (Center and South Africa)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1003**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1003; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TOL-1003**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1003; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TOL-1001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (Europe, Balcans, Turkey, Cyprus)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1001**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1001; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TOL-1001**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1001; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TOL-1005

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1005  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (other)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1005**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1005; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC



**P/N: ITC-TOL-1005**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1005; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TOL-1002

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1002  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (Russia/GUS, Middle East, North Africa)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1002**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1002; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TOL-1002**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1002; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TOL-1004

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1004  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (various)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1004**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1004; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TOL-1004**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1004; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

# Accessories for FLIR T6xx series

---



## P/N: T911093

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T911093  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Tool belt for FLIR camera pouches.	
Physical data	
Weight	0.117 kg (0.26 lb.)
Length	1.44 m (4.7 ft.)
Color	Black
Shipping information	
Packaging, type	Cardboard box
List of contents	• Tool belt
Packaging, weight	0.318 kg (0.7 lb.)
Packaging, size	243 × 165 × 82 mm (9.6 × 6.5 × 3.2 in.)
EAN-13	7332558003442 4743254000384 (Estonia plant)
UPC-12	845188003210
Country of origin	Estonia

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)

**P/N: T911093**

© 2015, FLIR Systems, Inc.  
#T911093; r. 23306; en-US

- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 63901-0101; FLIR E4
- 63905-0501; FLIR E5
- 63902-0202; FLIR E6
- 63903-0303; FLIR E8

## P/N: 19250-100

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 19250-100  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This device is a viewport which consist of a crystal "glass" window, mounted in an aluminum frame. The glass is specially formulated to allow transmission of infrared light to allow use of infrared thermal sensing equipment without opening the enclosure. This device is intended for installation in doors or walls of electrical enclosures without compromising the integrity of the enclosure.	
Power system	
Voltage	Any range
Environmental data	
Environment	Indoor/outdoor type 4/12
Operating temperature range	Maximum: 260°C (500°F)
Storage temperature range	Optics, maximum: 1357°C (2474°F)
Physical data	
Size (L x W x H)	25.5 x 73 x 86 mm (1.0 x 2.87 x 3.36 in.)
Viewing aperture diameter	45 mm (1.77 in.)
Material	Optics: CaF2 (Calcium Fluoride Crystal) Body: Anodized aluminum Hardware: steel
Comments to physical data	Required hole diameter, nominal: 60.3 mm (2.375 in.) Greenlee Punch: 76BB Maximum pullout strength: 658 kg (1450 lb.)
Lens	
Waveband	Broadband IR: short-, mid-, and longwave
Visible light spectrum	Yes
Certifications	
Certification	UL, IP67, NEMA Type 4/12, CSA
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>IR window</li> <li>Case</li> <li>Mounting instruction</li> <li>Additional safety screw</li> </ul>
Packaging, weight	0.24 kg (0.53 lb.)
Packaging, size	120 x 115 x 40 mm (4.7 x 4.5 x 1.6 in.)
EAN-13	4743254000728
UPC-12	845188002817
Country of origin	Estonia



IR Window 2 in

---

**P/N: 19250-100**

© 2015, FLIR Systems, Inc.  
#19250-100; r. 23306; en-US

**Supplies & accessories:**

## P/N: 19251-100

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 19251-100  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This device is a viewport which consist of a crystal "glass" window, mounted in an aluminum frame. The glass is specially formulated to allow transmission of infrared light to allow use of infrared thermal sensing equipment without opening the enclosure. This device is intended for installation in doors or walls of electrical enclosures without compromising the integrity of the enclosure.	
Power system	
Voltage	Any range
Environmental data	
Environment	Indoor/outdoor type 4/12
Operating temperature range	Maximum: 260°C (500°F)
Storage temperature range	Optics, maximum: 1357°C (2474°F)
Physical data	
Size (L × W × H)	26.9 × 99 × 107 mm (1.05 × 3.89 × 4.22 in.)
Viewing aperture diameter	69 mm (2.71 in.)
Material	Optics: CaF <sub>2</sub> (Calcium Fluoride Crystal) Body: Anodized aluminum Hardware: steel
Comments to physical data	Required hole diameter, nominal: 88.9 mm (3.5 in.) Greenlee Punch: 739BB Maximum pullout strength: 1656 kg (3650 lb.)
Lens	
Waveband	Broadband IR: short-, mid-, and longwave
Visible light spectrum	Yes
Certifications	
Certification	UL, IP67, NEMA Type 4/12, CSA
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>IR window</li> <li>Case</li> <li>Mounting instruction</li> <li>Additional safety screw</li> </ul>
Packaging, weight	0.39 kg (0.86 lb.)
Packaging, size	130 × 140 × 40 mm (5.12 × 5.51 × 1.58 in.)
EAN-13	4743254000735
UPC-12	845188002824
Country of origin	Estonia



IR Window 3 in.

---

**P/N: 19251-100**

© 2015, FLIR Systems, Inc.  
#19251-100; r. 23306; en-US

**Supplies & accessories:**

## P/N: 19252-100

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 19252-100  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This device is a viewport which consist of a crystal "glass" window, mounted in an aluminum frame. The glass is specially formulated to allow transmission of infrared light to allow use of infrared thermal sensing equipment without opening the enclosure. This device is intended for installation in doors or walls of electrical enclosures without compromising the integrity of the enclosure.	
Power system	
Voltage	Any range
Environmental data	
Environment	Indoor/outdoor type 4/12
Operating temperature range	Maximum: 260°C (500°F)
Storage temperature range	Optics, maximum: 1357°C (2474°F)
Physical data	
Size (L x W x H)	29.3 x 127 x 137 mm (1.15 x 5.01 x 5.37 in.)
Viewing aperture diameter	89 mm (3.50 in.)
Material	Optics: CaF <sub>2</sub> (Calcium Fluoride Crystal) Body: Anodized aluminum Hardware: steel
Comments to physical data	Required hole diameter, nominal: 114.3 mm (4.5 in.) Greenlee Punch: 742BB Maximum pullout strength: 1678 kg (3700 lb.)
Lens	
Waveband	Broadband IR: short-, mid-, and longwave
Visible light spectrum	Yes
Certifications	
Certification	UL, IP67, NEMA Type 4/12, CSA
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>IR window</li> <li>Case</li> <li>Mounting instruction</li> <li>Additional safety screw</li> </ul>
Packaging, weight	0.46 kg (1.01 lb.)
Packaging, size	165 x 175 x 40 mm (6.50 x 6.89 x 1.58 in.)
EAN-13	4743254000742
UPC-12	845188002831
Country of origin	Estonia



IR Window 4 in.

---

**P/N: 19252-100**

© 2015, FLIR Systems, Inc.

#19252-100; r. 23306; en-US

**Supplies & accessories:**



## P/N: 19250-200

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 19250-200  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Part name	IRW-2S
Material number	19250-200
Part description	Stainless steel IR window, 2" diameter
This device is a viewport that consist of a crystal "glass" window mounted in an aluminum frame. The glass is specially formulated to allow transmission of infrared (IR) light to allow use of IR thermal sensing equipment without opening the enclosure. This device is intended for installation in doors or walls of electrical enclosures without compromising the integrity of the enclosure.	
<b>Power system</b>	
Voltage	Any range
<b>Lens</b>	
Waveband	Broadband IR: short-, mid-, and longwave
Visible light spectrum	Yes
<b>Certifications</b>	
Certifications	UL, IP67, NEMA Type 4/12, CSA
<b>Physical data</b>	
Weight	0.5 kg (1 lb.)
Dimensions (H x W x L)	26.9 mm x 99 mm x 107 mm (1.05" x 3.89" x 4.22")
Material	Optics: CaF <sub>2</sub> (calcium fluoride crystal). Body: stainless steel AISI 316. Hardware: steel
Color	Metallic silver
<b>Shipping information</b>	
Packaging type	Color box
Packaging contents	<ul style="list-style-type: none"> <li>IR window</li> <li>Case</li> <li>Mounting instructions</li> <li>Additional safety screw</li> </ul>
Unit weight	0.54 kg (1.2 lb)
Each dimensions (H x W x L)	38.1 mm x 107.95 mm x 127 mm (1.5" x 4.25" x 5")
EAN-13	4743254001510
UPC-12	845188007584
Country of origin	Estonia
Tariff Code	9027.90.5450



---

**P/N: 19250-200**

© 2015, FLIR Systems, Inc.  
#19250-200; r. 23306; en-US

---

Technical support	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>

**Supplies and accessories**

## P/N: 19251-200

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 19251-200  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Part name	IRW-3S
Material number	19251-200
Part description	Stainless steel IR window, 3" diameter
This device is a viewport that consist of a crystal "glass" window mounted in an aluminum frame. The glass is specially formulated to allow transmission of infrared (IR) light to allow use of IR thermal sensing equipment without opening the enclosure. This device is intended for installation in doors or walls of electrical enclosures without compromising the integrity of the enclosure.	
<b>Power system</b>	
Voltage	Any range
<b>Environmental</b>	
Environment	Indoor/outdoor type 4/12
Operating temperature range	Maximum: 260°C (500°F)
Storage temperature range	Optics, maximum: 1357°C (2474°F)
<b>Certifications</b>	
Certifications	UL, IP67, NEMA Type 4/12, CSA
<b>Physical data</b>	
Weight:	0.7 kg (1.55 lb.)
Dimensions (H x W x L)	26.9 mm x 99 mm x 107 mm (1.05" x 3.89" x 4.22")
Material	Optics: CaF <sub>2</sub> (calcium fluoride crystal). Body: stainless steel AISI 316. Hardware: steel
Color	Metallic silver
<b>Lens</b>	
Waveband	Broadband IR: short-, mid-, and longwave
Visible light spectrum	Yes
<b>Shipping information</b>	
Packaging type	Color box
Packaging contents	<ul style="list-style-type: none"> <li>IR window</li> <li>Case</li> <li>Mounting instruction</li> <li>Additional safety screw</li> </ul>
Unit weight	0.77 kg ( 1.7 lb.)



## SS IR window 3"

### P/N: 19251-200

© 2015, FLIR Systems, Inc.  
#19251-200; r. 23306; en-US

Shipping information	
Unit dimensions (H × W × L)	38.1 mm × 127 mm × 139.7 mm (1.5" × 5" × 5.5")
EAN-13	4743254001527
UPC-12	845188007591
Country of origin	Estonia
Tariff code	9027.90.5450
Technical support	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>

### Supplies and accessories

## P/N: 19252-200

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 19252-200  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Part name	IRW-4S
Material number	19252-200
Part description	Stainless steel IR window, 4" diameter
This device is a viewport that consist of a crystal "glass" window mounted in an aluminum frame. The glass is specially formulated to allow transmission of infrared (IR) light to allow use of IR thermal sensing equipment without opening the enclosure. This device is intended for installation in doors or walls of electrical enclosures without compromising the integrity of the enclosure.	
<b>Power system</b>	
Voltage	Any range
<b>Environmental</b>	
Environment	Indoor/outdoor type 4/12
Operating temperature range	Maximum: 260°C (500°F)
Storage temperature range	Optics, maximum: 1357°C (2474°F)
<b>Certifications</b>	
Certifications	UL, IP67, NEMA Type 4/12, CSA
<b>Physical data</b>	
Weight:	1.18 kg (2.6 lb.)
Dimensions (H × W × L)	26.9 mm × 99 mm × 107 mm (1.05" × 3.89" × 4.22")
Material	Optics: CaF <sub>2</sub> (calcium fluoride crystal). Body: stainless steel AISI 316. Hardware: steel
Color	Metallic silver
<b>Lens</b>	
Waveband	Broadband IR: short-, mid-, and longwave
Visible light spectrum	Yes
<b>Shipping information</b>	
Packaging type	Color box
Packaging contents	<ul style="list-style-type: none"> <li>IR window</li> <li>Case</li> <li>Mounting instruction</li> <li>Additional safety screw</li> </ul>
Unit weight	1.32 kg ( 2.9 lb.)
Unit dimensions (H × W × L)	38.1 mm × 165.1 mm × 177.8 mm ( 1.5" × 6.5" × 7")
EAN-13	4743254001534
UPC-12	845188007607



## SS IR window 4"

### P/N: 19252-200

© 2015, FLIR Systems, Inc.  
#19252-200; r. 23306; en-US

Shipping information	
Country of origin	Estonia
Tariff code	9027.90.5450
Technical support	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>

### Supplies and accessories

## P/N: T197914

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197914  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
The 15° lens is a popular lens accessory and provides 1.7× magnification compared to the standard lens. Ideal for small or distant targets such as overhead power lines.	
Imaging and optical data	
Field of view (FOV)	15° × 11° (19° diagonally)
Minimum focus distance	500 mm (19.69 in.)
Focal length	41.3 mm (1.63 in.)
Spatial resolution (IFOV)	0.41 mrad
Lens identification	Automatic
F-number	1.0
Number of lenses	3 (3 asph)
MTF @ 70% of FOV	Normal requirements (52%)
Distortion	3%
Physical data	
Weight	0.190 kg (0.419 lb.)
Size (L × D)	47 × 67 mm (1.85 × 2.64 in.)
Front lens diameter	52 mm (2.05 in.)
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Lens</li> <li>• Lens case</li> <li>• Front lens cap</li> <li>• Rear lens cap</li> </ul>
Packaging, weight	0.427 kg (0.95 lb.)
Packaging, size	174 × 133 × 133 mm (6.85 × 5.24 × 5.24 in.)
EAN-13	7332558004449
UPC-12	845188002671
Country of origin	Sweden

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)

**P/N: T197914**

© 2015, FLIR Systems, Inc.  
#T197914; r. 23380; en-US

- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°



## P/N: T197922

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197922  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
The standard 25° lens is suitable for the majority of applications.	
Imaging and optical data	
Field of view (FOV)	25° × 19° (31° diagonally)
Minimum focus distance	250 mm (9.84 in.)
Focal length	24.6 mm (0.97 in.)
Spatial resolution (IFOV)	0.69 mrad
Lens identification	Automatic
F-number	1.0
Number of lenses	3 (3 asph)
MTF @ 70% of FOV	Normal requirements (52%)
Distortion	3%
Physical data	
Weight	0.160 kg (0.353 lb.)
Size (L × D)	41 × 67 mm (1.61 × 2.64 in.)
Front lens diameter	32 mm (1.26 in.)
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Lens</li> <li>• Lens case</li> <li>• Front lens cap</li> <li>• Rear lens cap</li> </ul>
Packaging, weight	0.380 kg (0.84 lb.)
Packaging, size	174 × 133 × 133 mm (6.9 × 5.2 × 5.2 in.)
EAN-13	7332558004432
UPC-12	845188004439
Country of origin	Sweden

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)

**P/N: T197922**

© 2015, FLIR Systems, Inc.  
#T197922; r. 23380; en-US

- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: T197915

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197915  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This wide angle lens has a field of view almost double that of the standard 25° lens. Perfect for wide or tall targets or when working in confined areas.	
Imaging and optical data	
Field of view (FOV)	45° × 34° (55° diagonally)
Minimum focus distance	150 mm (5.91 in.)
Focal length	13.1 mm (0.52 in.)
Spatial resolution (IFOV)	1.30 mrad
Lens identification	Automatic
F-number	1.0
Number of lenses	3 (3 asph)
MTF @ 70% of FOV	Normal requirements (52%)
Distortion	3%
Physical data	
Weight	0.209 kg (0.461 lb.)
Size (L × D)	50 × 67 mm (1.97 × 2.64 in.)
Front lens diameter	30 mm (1.18 in.)
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Lens</li> <li>• Lens case</li> <li>• Front lens cap</li> <li>• Rear lens cap</li> </ul>
Packaging, weight	0.430 kg (0.95 lb.)
Packaging, size	172 × 131 × 133 mm (6.8 × 5.2 × 5.2 in.)
EAN-13	7332558004463
UPC-12	845188002688
Country of origin	Sweden

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)

**P/N: T197915**

© 2015, FLIR Systems, Inc.  
#T197915; r. 23380; en-US

- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: T198059

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198059  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
For R&D usage or development purposes. As an example looking at PCB's or small electronic components.	
Imaging and optical data	
Field of view (FOV)	32 × 24 mm (40 mm diagonally)
Magnifying factor	2.9×
Working distance	84 mm
Depth of field	0.65 mm
Focal length	78 mm
Spatial resolution (IFOV)	50 μm
Lens identification	Manual
F-number	1.0
Number of lenses	2 (2 asph)
MTF @ 70% of FOV	Normal requirements (52%)
Distortion	3%
Lens note	The close-up lens is mounted on the 25° lens
Physical data	
Weight	0.197 kg (0.43 lb.)
Size (L × D)	32 × 67 mm
Front lens diameter	53 mm
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Lens</li> <li>• Front lens cap</li> <li>• Rear lens cap</li> <li>• Case</li> <li>• Instruction for mounting close-up lenses</li> </ul>
Packaging, weight	0.440 kg (0.97 lb.)
Packaging, size	172 × 131 × 133 mm (6.8 × 5.2 × 5.2 in.)
EAN-13	7332558005583
UPC-12	845188005795
Country of origin	Sweden

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)

**P/N: T198059**

© 2015, FLIR Systems, Inc.  
#T198059; r. 23380; en-US

- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 55001-0102; FLIR A615 25°
- 55001-0202; FLIR A645sc 25°
- 55001-0302; FLIR A655sc 25°

## P/N: T198060

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198060  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
For R&D usage or development purposes. As an example looking at PCB's or small electronic components.	
Imaging and optical data	
Field of view (FOV)	64 × 48 mm (80 mm diagonally)
Magnifying factor	5.8×
Working distance	172 mm
Depth of field	2.8 mm
Focal length	149 mm
Spatial resolution (IFOV)	100 μm
Lens identification	Manual
F-number	1.0
Number of lenses	2 (2 asph)
MTF @ 70% of FOV	Normal requirements (52%)
Distortion	3%
Lens note	The close-up lens is mounted on the 25° lens
Physical data	
Weight	0.176 kg (0.39 lb.)
Size (L × D)	28 × 67 mm
Front lens diameter	53 mm
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Lens</li> <li>• Front lens cap</li> <li>• Rear lens cap</li> <li>• Case</li> <li>• Instruction for mounting close-up lenses</li> </ul>
Packaging, weight	0.426 kg (0.84 lb.)
Packaging, size	172 × 131 × 133 mm (6.8 × 5.2 × 5.2 in.)
EAN-13	84518805757
UPC-12	73325585545
Country of origin	Sweden

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)

**P/N: T198060**

© 2015, FLIR Systems, Inc.  
#T198060; r. 23380; en-US

- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 55001-0102; FLIR A615 25°
- 55001-0202; FLIR A645sc 25°
- 55001-0302; FLIR A655sc 25°



## P/N: T198166

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198166  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
The 7° lens is a popular accessory and provides 3.6× magnification compared to the standard lens. Ideal for small or distant targets such as overhead power lines.	
Imaging and optical data	
Field of view (FOV)	7° × 5.3° (8.7° diagonally)
Minimum focus distance	2.0 m (6.6 ft.)
Focal length	88.9 mm (3.5 in.)
Spatial resolution (IFOV)	0.19 mrad
Lens identification	Automatic
F-number	1.3
Number of lenses	3 (3 asph)
MTF @ 70% of FOV	Normal requirements (52%)
Distortion	3%
Physical data	
Weight	0.77 kg (0.70 lb.)
Weight, lens	0.71 kg (1.57 lb.)
Size (L × D)	96 × 126 mm (3.78 × 4.96 in.), excluding support
Front lens diameter	96 mm (3.78 in.)
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Lens</li> <li>• Lens case</li> <li>• Front lens cap</li> <li>• Rear lens cap</li> <li>• Mounting support</li> <li>• Lens mounting instructions</li> </ul>
Packaging, weight	1.63 kg (3.58 lb.)
Packaging, size	385 × 308 × 165 mm (15.2 × 12.1 × 6.5 in.)
EAN-13	7332558004425
UPC-12	845188004422
Country of origin	Sweden

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)

**P/N: T198166**

© 2015, FLIR Systems, Inc.  
#T198166; r. 23380; en-US

- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)

## P/N: T198065

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198065  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This wide angle lens has a field of view approximately three times that of the standard 25° lens. This lens is suitable for extremely cramped situations where the operator can not step farther back from the object.	
Imaging and optical data	
Field of view (FOV)	80° × 64.4° ( 92.8° diagonal)
Minimum focus distance	65 mm (2.6 in.)
Focal length	6.5 mm (0.26 in.)
Spatial resolution (IFOV)	2.62 mrad
Lens identification	Automatic
F-number	1.0
Number of lenses	5 (5 asph)
MTF @ 70% of FOV	Normal requirements (52%)
Distortion	5%
Physical data	
Weight	0.428 kg (0.944 lb.)
Size (L × D)	126 × 67 mm (4.96 × 2.64 in.)
Front lens diameter	25 mm 0.98 in.)
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Lens</li> <li>• Lens case</li> <li>• Front lens cap</li> <li>• Rear lens cap</li> </ul>
Packaging, weight	0.680 kg (1.5 lb.)
Packaging, size	174 × 133 × 133 mm (6.9 × 5.2 × 5.2 in.)
EAN-13	7332558004418
UPC-12	845188004415
Country of origin	Sweden

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)

**P/N: T198065**

© 2015, FLIR Systems, Inc.  
#T198065; r. 23380; en-US

- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: T198066

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198066  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
For R&D usage or development purposes. As an example looking at PCB's or small electronic components.	
Imaging and optical data	
Field of view (FOV)	16 × 12 mm (20 mm diagonally)
Magnifying factor	1.5×
Working distance	46 mm
Depth of field	0.21 mm
Focal length	62 mm
Spatial resolution (IFOV)	25 µm
Lens identification	Automatic
F-number	1.1
Number of lenses	4 (4 asph)
MTF @ 70% of FOV	Normal requirements (52%)
Distortion	< 3%
Physical data	
Weight	0.48 kg (1.1 lb.)
Size (L × D)	86 × 67 mm
Front lens diameter	52 mm
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Lens</li> <li>• Front lens cap</li> <li>• Rear lens cap</li> <li>• Case</li> <li>• Instruction for mounting close-up lenses</li> </ul>
Packaging, weight	0.737 kg (1.6 lb.)
Packaging, size	172 × 131 × 133 mm (6.8 × 5.2 × 5.2 in.)
EAN-13	73325585552
UPC-12	84518805764
Country of origin	Sweden

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)

**P/N: T198066**

© 2015, FLIR Systems, Inc.  
#T198066; r. 23380; en-US

- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°

## P/N: T197896

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197896  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

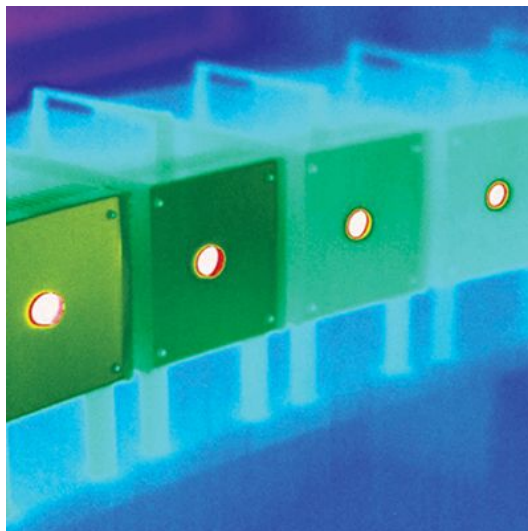
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

For high temperature applications the camera can be calibrated for high temperature ranges.

### Measurement

Optional object temperature range	+300°C to +2000°C (+572°F to +3632°F)
-----------------------------------	---------------------------------------

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°



High temp option +300°C to 2000°C (+572°F to 3632°F) for FLIR A6xxsc and T6xx

---

**P/N: T197896**

© 2015, FLIR Systems, Inc.  
#T197896; r. 23306; en-US

- 55001-0305; FLIR A655sc 80°



## P/N: T910814

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T910814  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
FLIR P/B/SC6xx and FLIR GF3xx series:	
Power supply, including multiple plugs, to charge the battery when it is inside or outside of the camera.	
FLIR T6xx and FLIR Exx series:	
Power supply, including multiple plugs, to charge the battery when it is inside the camera or in the battery charger.	
Power system	
AC operation	100–240 VAC, 50/60 Hz, 12 VDC out
Power	3000 mA at 12 VDC
Physical data	
Cable length	1.98 m (6.5 ft.)
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Power supply including cable</li> <li>EU plug</li> <li>UK plug</li> <li>US plug</li> <li>AU plug</li> </ul>
Packaging, weight	0.324 kg (9.7 lb.)
Packaging, size	152 × 78 × 73 mm (6.0 × 3.1 × 2.9 in.)
EAN-13	7332558003794 4743254001763 (Estonia plant)
UPC-12	845188002145
Country of origin	Sweden

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)

**P/N: T910814**

© 2015, FLIR Systems, Inc.  
#T910814; r. 23306; en-US

- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)



Power supply, incl. multi plugs

---

**P/N: T910814**

© 2015, FLIR Systems, Inc.  
#T910814; r. 23306; en-US

- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: T198506

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198506  
Commit: 23872  
Language: en-US  
Modified: 2015-03-10 13:37  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
High capacity battery for the IR camera.	
Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	3.7 V
Battery capacity	7.8 Ah
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 90% capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
Environmental data	
Battery storage temperature range	-40°C to +70°C (-40°F to +158°F)
Physical data	
Battery weight	0.173 kg (0.38 lb.)
Size (L x W x H)	84 x 49 x 60 mm (3.3 x 1.9 x 2.4 in.)
Shipping information	
Packaging, type	Cardboard box
Packaging, weight	0.272 kg (0.6 lb.)
Packaging, size	183 x 136 x 63 mm (7.2 x 5.4 x 2.5 in.)
EAN-13	7332558004456
UPC-12	845188004453
Country of origin	Sweden

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)



---

**P/N: T198506**

© 2015, FLIR Systems, Inc.  
#T198506; r. 23872; en-US

- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)



# Memory card SDHC 4 GB

**P/N: T911230ACC**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: T911230ACC  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.

General description	
SD Card for data storage (e.g. images)	
Data communication interfaces	
Memory card, size	At least 4 GB
Physical data	
Weight	2 g (0.07 oz.)
Size (L x W x H)	32.0 x 24.0 x 2.1 mm (1.26 x 0.94 x 0.08 in.)
Shipping information	
Packaging, type	Cardboard box
List of contents	• SD Card
Packaging, weight	65 g (2.3 oz.)
Packaging, size	170 x 64 x 75 mm (6.69 x 2.52 x 2.95 in.)
EAN-13	7332558006221 4743254001503 (Estonia plant)
UPC-12	845188006570
Country of origin	Sweden

## Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)

**P/N: T911230ACC**

© 2015, FLIR Systems, Inc.  
#T911230ACC; r. 23306; en-US

- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

**P/N: 1910423**

**Copyright**

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

**Document identity**

Publ. No.: 1910423  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

**Corporate Headquarters**

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

**Website**

<http://www.flir.com>

**Customer support**

<http://support.flir.com>

**Disclaimer**

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This cable is used to connect the infrared camera with a computer, using the USB protocol.	
Physical data	
Weight	60 g (2.1 oz.)
Cable length	1.8 m (5.9 ft.)
Connector	Standard USB-A to USB Mini-B
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558003428
UPC-12	845188002176
Country of origin	Sweden

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)



**P/N: 1910423**

© 2015, FLIR Systems, Inc.  
#1910423; r. 23306; en-US

- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40



---

**P/N: 1910423**

© 2015, FLIR Systems, Inc.  
#1910423; r. 23306; en-US

- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72201-0106; FLIR K45
- 72201-0206; FLIR K55

## P/N: T198509

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198509  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This cable is used to power the infrared camera from the cigarette lighter socket in a car.	
Note: This is the same product as p/n 1196497.	
Physical data	
Cable length	1.2 m (3.9 ft).
Shipping information	
Packaging, type	Cardboard box
Packaging, weight	0.125 kg (0.28 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558004340 4743254001435 (Estonia plant)
UPC-12	845188004361
Country of origin	Sweden

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)

**P/N: T198509**

© 2015, FLIR Systems, Inc.  
#T198509; r. 23306; en-US

- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72201-0106; FLIR K45
- 72201-0206; FLIR K55

## P/N: T910930ACC

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T910930ACC  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This cable is used to connect the infrared camera with an external display.	
Physical data	
Weight	159 g (5.6 oz.)
Cable length	1.5 m (4.9 ft.)
Connector	HDMI type C to DVI
Shipping information	
Packaging, type	Cardboard box
Packaging, weight	221 g (7.8 oz.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558006290
UPC-12	845188006648
Country of origin	Sweden

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)



---

**P/N: T910930ACC**

© 2015, FLIR Systems, Inc.  
#T910930ACC; r. 23306; en-US

- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)

## P/N: T910891ACC

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T910891ACC  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This cable is used to connect the infrared camera with an external display.	
Physical data	
Weight	137 g (4.8 oz.)
Cable length	1.5 m (4.9 ft.)
Connector	HDMI type C to HDMI type A
Shipping information	
Packaging, type	Cardboard box
Packaging, weight	201 g (7.1 oz.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558006306
UPC-12	845188006655
Country of origin	Sweden

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)



---

**P/N: T910891ACC**

© 2015, FLIR Systems, Inc.  
#T910891ACC; r. 23306; en-US

- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)



## P/N: T198625ACC

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198625ACC  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Rugged, watertight plastic shipping case for FLIR T6XX series. Holds all items neatly and securely. The case can be locked with padlocks and features a breather valve to prevent pressure build-up in airplane cargo holds.

### Physical data

Weight	2.63 kg (5.8 lb.)
Size (L x W x H)	484 x 345 x 178 mm (19.1 x 13.6 x 7.0 in.)
Material	PP with Rubber Blend (Polypropylene)
Color	Black

### Shipping information

Packaging, type	Cardboard box
List of contents	• Hard transport case
Packaging, weight	2.93 kg (6.45 lb.)
Packaging, size	495 x 370 x 192 mm (19.5 x 14.6 x 7.6 in.)
EAN-13	7332558008386
UPC-12	845188008734
Country of origin	Sweden

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)



---

**P/N: T198625ACC**

© 2015, FLIR Systems, Inc.  
#T198625ACC; r. 23306; en-US

- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)

## P/N: T198495

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198495  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Pouch, with shoulder strap, to carry and protect the camera, made in durable nylon. The pouch can be used together with the tool belt.	
Physical data	
Weight	0.27 kg (0.60 lb.), excluding shoulder strap
Size (L x W x H)	200 x 110 x 185 mm (7.9 x 4.3 x 7.3 in.), excluding shoulder strap
Color	black
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Pouch</li> <li>Strap</li> </ul>
Packaging, weight	0.625 kg (1.38 lb.)
Packaging, size	303 x 206 x 128 mm (11.9 x 8.1 x 5.0 in.)
EAN-13	7332558004500
UPC-12	845188004477
Country of origin	Sweden

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)

---

**P/N: T198495**

© 2015, FLIR Systems, Inc.  
#T198495; r. 23306; en-US

- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)

## P/N: T198497

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198497  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Soft eyecup for the viewfinder on the camera.	
Physical data	
Color	Black
Shipping information	
Packaging, type	Cardboard box
List of contents	• Eyecup
Packaging, weight	0.068 kg (0.15 lb.)
Packaging, size	170 × 64 × 75 mm (6.7 × 2.5 × 3.0 in.)
EAN-13	7332558004388
UPC-12	845188004385
Country of origin	Sweden

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)



## Large eyecup

---

### P/N: T198497

© 2015, FLIR Systems, Inc.  
#T198497; r. 23306; en-US

- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)

## P/N: T198498

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198498  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Tripod adapter, necessary accessory to be able to mount the camera on a tripod.	
Physical data	
Size (L x W x H)	60x 36 x 20 mm (2.4 x 1.4 x 0.8 in.)
Color	Black
Shipping information	
Packaging, type	Cardboard box
List of contents	• Tripod Adapter
Packaging, weight	0.075 kg (0.17 lb.)
Packaging, size	170 x 64 x 75 mm (6.7 x 2.5 x 3.0 in.)
EAN-13	7332558004395
UPC-12	845188004392
Country of origin	Sweden

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)



## Tripod Adapter

---

### P/N: T198498

© 2015, FLIR Systems, Inc.  
#T198498; r. 23306; en-US

- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)



## P/N: T198499

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198499  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Neck strap to carry the camera.	
Physical data	
Color	Black
Shipping information	
Packaging, type	Cardboard box
List of contents	• Neck strap
Packaging, weight	0.168 kg (0.37 lb.)
Packaging, size	183 × 136 × 63 mm (7.2 × 5.4 × 2.5 in.)
EAN-13	7332558004401
UPC-12	845188004408
Country of origin	Sweden

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)



## Neck strap

---

### P/N: T198499

© 2015, FLIR Systems, Inc.  
#T198499; r. 23306; en-US

- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)

## P/N: T197771ACC

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197771ACC  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Headset with Bluetooth for wireless connection with the infrared camera.	
Data communication interfaces	
Bluetooth	Connection to the infrared camera
Audio	Headset including microphone
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Headset</li> <li>Ear clip</li> <li>Charger</li> <li>Multi plugs</li> <li>USB cable Std A to Mini-B</li> </ul>
Packaging, weight	278 g (9.8 oz.)
Packaging, size	183 × 136 × 63 mm (7.2 × 5.35 × 2.48 in.)
EAN-13	7332558006337
UPC-12	845188006686
Country of origin	Sweden

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)

**P/N: T197771ACC**

© 2015, FLIR Systems, Inc.  
#T197771ACC; r. 23306; en-US

- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: T198586

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198586  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description
FLIR Reporter Professional is a powerful software for creating compelling and professional, fully customized, easy-to-interpret maintenance reports.
Professional Report Wizard guides you step-by-step in combining all IR inspection data - infrared and visual images, temperature measurements, and text notes – into a professional, easy-to-interpret maintenance report.
Key features:
<ul style="list-style-type: none"> <li>• Flexible report page design and layout for customized reports</li> <li>• Use quick insert function to easily create custom report pages</li> <li>• Fully integrated with standard Microsoft Word</li> <li>• Generates reports in standard MS Office format and PDF-format</li> <li>• Powerful temperature analysis</li> <li>• Triple Fusion Picture-in-Picture (movable, sizable, scalable)</li> <li>• Rapid report manager supporting automatic report generation by drag-and-drop</li> <li>• Support for MSX (Multi-Spectral Dynamic Imaging) images</li> <li>• Support for sketch images in both IR and visual with on/off toggling</li> <li>• Support for same FOV ("Field of View Match")</li> <li>• Grid settings</li> <li>• Trending functionality</li> <li>• Automatic link to Google™ Maps for images with GPS coordinates</li> <li>• Automatic summary table for the report</li> <li>• Fine tune images and make full temperature analysis directly in Microsoft Word</li> <li>• Spell check</li> <li>• Create your own formulas including measurement values from images</li> <li>• Play radiometric sequences directly in the report</li> <li>• Search functionality to quickly finding images for your report</li> <li>• Panorama tool for combining several images to a larger image</li> <li>• Support for GF series IR images</li> <li>• Auto Update function</li> <li>• Office 2003 (32-bit), Office 2007 (32-bit) and Office 2010 (32-bit)</li> <li>• Windows 7 (32 and 64-bit), Windows Vista (32 and 64-bit)</li> <li>• Support for METERLiNK™ data</li> <li>• *.docx compatibility</li> </ul>
Download
Download your copy of FLIR Reporter Professional here:
<a href="http://support.flir.com/reporter">http://support.flir.com/reporter</a>

**P/N: T198586**

© 2015, FLIR Systems, Inc.  
#T198586; r. 23306; en-US

Release notes	
Version	9.2
New features	<ul style="list-style-type: none"> <li>— News in 9.2: —</li> <li>Option to hide Zoom Viewer</li> <li>Option to extract Visual image from MSI/Fusion image.</li> <li>Support for the new FLIR Ex and Exx series cameras.</li> <li>Support for multispectral images.</li> <li>Support for auto-oriented images.</li> <li>Various bug fixes.</li> </ul>
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>FLIR Reporter Professional scratchcard</li> </ul>
Packaging, weight	0.135 kg (0.3 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005286 4743254001893 (Estonia plant)
UPC-12	845188005498
Country of origin	Sweden
System requirements	
Operating system	<ul style="list-style-type: none"> <li>Windows XP, 32-bit</li> <li>Windows Vista, 32-bit</li> <li>Windows Vista, 64-bit</li> <li>Windows 7, 32-bit</li> <li>Windows 7, 64-bit</li> </ul>
Software requirements	<ul style="list-style-type: none"> <li>Office 2007 (32-bit)</li> <li>Office 2010 (32-bit)</li> </ul>

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)

**P/N: T198586**

© 2015, FLIR Systems, Inc.  
#T198586; r. 23306; en-US

- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: T198586

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198586  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

FLIR Reporter Professional is a powerful software for creating compelling and professional, fully customized, easy-to-interpret maintenance reports.

Professional Report Wizard guides you step-by-step in combining all IR inspection data - infrared and visual images, temperature measurements, and text notes – into a professional, easy-to-interpret maintenance report.

### Key features:

- Flexible report page design and layout for customized reports
- Use quick insert function to easily create custom report pages
- Fully integrated with standard Microsoft Word
- Generates reports in standard MS Office format and PDF-format
- Powerful temperature analysis
- Triple Fusion Picture-in-Picture (movable, sizable, scalable)
- Rapid report manager supporting automatic report generation by drag-and-drop
- Support for MSX (Multi-Spectral Dynamic Imaging) images
- Support for sketch images in both IR and visual with on/off toggling
- Support for same FOV ("Field of View Match")
- Grid settings
- Trending functionality
- Automatic link to Google™ Maps for images with GPS coordinates
- Automatic summary table for the report
- Fine tune images and make full temperature analysis directly in Microsoft Word
- Spell check
- Create your own formulas including measurement values from images
- Play radiometric sequences directly in the report
- Search functionality to quickly finding images for your report
- Panorama tool for combining several images to a larger image
- Support for GF series IR images
- Auto Update function
- Office 2003 (32-bit), Office 2007 (32-bit) and Office 2010 (32-bit)
- Windows 7 (32 and 64-bit), Windows Vista (32 and 64-bit)
- Support for METERLiNK™ data
- \*.docx compatibility

### Download

Download your copy of FLIR Reporter Professional here:

<http://support.flir.com/reporter>



**P/N: T198586**

© 2015, FLIR Systems, Inc.  
#T198586; r. 23306; en-US

Release notes	
Version	9.2
New features	<ul style="list-style-type: none"> <li>— News in 9.2: —</li> <li>Option to hide Zoom Viewer</li> <li>Option to extract Visual image from MSI/Fusion image.</li> <li>Support for the new FLIR Ex and Exx series cameras.</li> <li>Support for multispectral images.</li> <li>Support for auto-oriented images.</li> <li>Various bug fixes.</li> </ul>
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>FLIR Reporter Professional scratchcard</li> </ul>
Packaging, weight	0.135 kg (0.3 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005286 4743254001893 (Estonia plant)
UPC-12	845188005498
Country of origin	Sweden
System requirements	
Operating system	<ul style="list-style-type: none"> <li>Windows XP, 32-bit</li> <li>Windows Vista, 32-bit</li> <li>Windows Vista, 64-bit</li> <li>Windows 7, 32-bit</li> <li>Windows 7, 64-bit</li> </ul>
Software requirements	<ul style="list-style-type: none"> <li>Office 2007 (32-bit)</li> <li>Office 2010 (32-bit)</li> </ul>

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)

**P/N: T198586**

© 2015, FLIR Systems, Inc.  
#T198586; r. 23306; en-US

- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: T198584

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198584  
Commit: 25122  
Language: en-US  
Modified: 2015-04-29 09:51  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
FLIR Tools is a software suite specifically designed to provide an easy way to update your camera and create inspection reports.	
Key features:	
<ul style="list-style-type: none"> <li>Report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR).</li> <li>Manual IR/Visual Image Grouping</li> <li>Import images from your camera to your computer.</li> <li>Apply filters when searching for images.</li> <li>Search all text in images and text annotations.</li> <li>Store the five latest search criteria's.</li> <li>Lay out, move, and resize measurement tools on any infrared image.</li> <li>Create PDF imagesheets of any images of your choice.</li> <li>Add headers, footers, and logos to imagesheets.</li> <li>Create PDF reports for images of your choice.</li> <li>Add headers, footers, and logos to reports.</li> <li>Report editor (report page preview and snap to grid).</li> <li>Sort function (by date, groups sorted by path, and groups sorted by date).</li> <li>Browse and purchase infrared cameras, software, and accessories in the webshop.</li> <li>Software localized to 21 languages.</li> <li>Support for MSX (Multi-Spectral Dynamic Imaging ) Images</li> <li>Support for Sketch Images on both IR and Visual with toggling ON/OFF feature.</li> <li>Support for Same FOV ( Field of View Match )</li> <li>Display of Compass Information in Edit and in Report.</li> <li>Display of GPS Information in Edit and in Report.</li> <li>Microsoft Windows 7 (32- and 64-bit) and Windows 8 (32- and 64-bit)</li> <li>Camera update (applies to FLIR Ex, Kxx, Exx and T6xx series only).</li> </ul>	
Download	
This software is a freeware. To download, click the following link:	
<a href="http://support.flir.com/tools">http://support.flir.com/tools</a>	
Release notes	
Version	5.2
New features in version 5.2	<ul style="list-style-type: none"> <li>Support for auto-adjusting a region.</li> <li>Support for zoom.</li> <li>Various bug fixes.</li> </ul>
New features in version 5.1	<ul style="list-style-type: none"> <li>Improved import performance.</li> <li>Added support for video recording settings for FLIR Kxx series.</li> <li>Added support for importing video files from FLIR Kxx series.</li> <li>Added support for FLIR C2 camera.</li> <li>Various bug fixes.</li> </ul>

**P/N: T198584**

© 2015, FLIR Systems, Inc.  
#T198584; r. 25122; en-US

Release notes	
New features in version 5.0	<ul style="list-style-type: none"> <li>Local object parameters for measurement tools.</li> <li>Save a report in-process with the ability to edit at a later time.</li> <li>Pull-down menus for text annotations.</li> <li>Variable playback speed for recordings.</li> <li>Show or hide min./max./avg. temperature, and hot/cold markers, for areas and lines.</li> <li>Smoother display for low-resolution images.</li> <li>UltraMax image enhancement.</li> <li>Dropping support for Windows XP.</li> <li>Various bug fixes.</li> </ul>
New features in version 4.1	<ul style="list-style-type: none"> <li>Previous/next in Edit mode.</li> <li>Clone in the Library.</li> <li>Extract visual photo from a multispectral image.</li> <li>Import *.mp4, *.seq, and *.csq files from the camera.</li> <li>Playback/edit *.seq and *.csq files.</li> <li>Scale enhancement for the FLIR GF3xx series.</li> <li>Auto resize of thumbnails during importing for the FLIR T6xx series.</li> <li>Grouping/ungrouping now added.</li> <li>Various bug fixes.</li> </ul>
New features in version 4.0	<ul style="list-style-type: none"> <li>Support for the new FLIR Ex and Exx series cameras.</li> <li>Interactive quick start guide when connecting a FLIR camera.</li> <li>Improved library view.</li> <li>Support for multispectral images.</li> <li>Support for auto-oriented images.</li> <li>Various bug fixes.</li> </ul>
New features in version 3.1	<ul style="list-style-type: none"> <li>Support for FLIR K series cameras.</li> <li>Interactive quick start guide when connecting a FLIR K series camera.</li> <li>Live image streaming from FLIR K series cameras.</li> <li>PC-side configuration of FLIR K series cameras.</li> <li>New report templates for DC images only added.</li> <li>Various bug fixes.</li> </ul>
New features in version 3.0	<ul style="list-style-type: none"> <li>Add folder to library.</li> <li>Support for isotherms and color alarms</li> <li>Image description for both IR and DC.</li> <li>Export functionality (*.avi, *.csv).</li> <li>Microsoft Windows 8 (32- and 64-bit)</li> <li>New web installer</li> <li>Various bug fixes.</li> </ul>
New features in version 2.2	<ul style="list-style-type: none"> <li>Camera tab: <ul style="list-style-type: none"> <li>Logging feature in Camera Tab</li> <li>Recording and playback of SEQ files.</li> </ul> </li> <li>Various bug fixes.</li> </ul>
New features in version 2.1	<ul style="list-style-type: none"> <li>New Text Comment Template Tab: <ul style="list-style-type: none"> <li>Create, Edit and Transfer templates to and from any FLIR Camera.</li> <li>Import and Export of Templates.</li> </ul> </li> <li>Support for MSX (Multi-Spectral Dynamic Imaging ) Images</li> <li>Support for Sketch Images on both IR and Visual with toggling ON/OFF feature.</li> <li>Support for Same FOV ( Field of View Match )</li> <li>Display of Compass Information in Edit and in Report.</li> <li>Display of GPS Information in Edit and in Report. <ul style="list-style-type: none"> <li>Direct Link to Google Maps for GPS Tagged images from Report.</li> </ul> </li> <li>Support for 3x5 and 6x5 A-series cameras</li> </ul>

**P/N: T198584**

© 2015, FLIR Systems, Inc.  
#T198584; r. 25122; en-US

Release notes	
New features in version 2.0	<ul style="list-style-type: none"> <li>Camera tab: <ul style="list-style-type: none"> <li>Camera connection with FLIR UVC cameras.</li> <li>Measurement data analysis.</li> <li>Plotting.</li> <li>Snapshot saving with text annotation and plot.</li> </ul> </li> <li>Performance improvement for large reports: can now create reports and imagesheets of up to 200 pages.</li> <li>Various bug fixes.</li> </ul>
New features in version 1.3	<ul style="list-style-type: none"> <li>Import from ix series cameras.</li> <li>Add and remove a form from a group.</li> <li>Text comments are now saved in the infrared image.</li> <li>The indexing engine can create groups from IR, DC, and text annotations when indexing the paths in the watch folder.</li> <li>Arrow tool in the report toolbar.</li> <li>Reorder pages.</li> <li>Text annotations can now be edited in the report.</li> <li>New report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR).</li> <li>New sample images.</li> </ul>
New features in version 1.2 SP1	<ul style="list-style-type: none"> <li>Various bug fixes.</li> </ul>
New features in version 1.2	<ul style="list-style-type: none"> <li>Search function: <ul style="list-style-type: none"> <li>Store the five latest search criterias.</li> <li>Search in all texts in images and text annotations.</li> </ul> </li> <li>Sort function: <ul style="list-style-type: none"> <li>By date.</li> <li>Groups sorted by by path.</li> <li>Groups sorted by date.</li> </ul> </li> <li>Report editor: <ul style="list-style-type: none"> <li>Report page preview.</li> <li>Snap to grid.</li> <li>Various bug fixes.</li> </ul> </li> </ul>
New features in version 1.1 SP1	<ul style="list-style-type: none"> <li>Extension to the camera update functionality.</li> <li>Various bug fixes</li> </ul>
New features in version 1.1	<ul style="list-style-type: none"> <li>Software localized to 21 languages.</li> <li>Camera update. (Exx, T6xx)</li> <li>Option to rotate an infrared image in the infrared editor.</li> </ul>

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Digital download, or</li> <li>CD-ROM</li> </ul>
Packaging, weight	0.106 kg (0.23 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005279
UPC-12	845188005481
Country of origin	Sweden

System requirements	
Operating system	<ul style="list-style-type: none"> <li>Windows XP, 32-bit</li> <li>Windows Vista, 32-bit</li> <li>Windows 7, 32-bit</li> <li>Windows 7, 64-bit</li> <li>Windows 8, 32-bit</li> <li>Windows 8, 64-bit</li> </ul>

**P/N: T198584**

© 2015, FLIR Systems, Inc.  
#T198584; r. 25122; en-US

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm

**P/N: T198584**

© 2015, FLIR Systems, Inc.  
#T198584; r. 25122; en-US

- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

**P/N: T198584**

© 2015, FLIR Systems, Inc.  
#T198584; r. 25122; en-US

- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72001-0101; FLIR C2



**P/N: T198583**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: T198583  
Commit: 25121  
Language: en-US  
Modified: 2015-04-29 09:50  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

Compared to FLIR Tools, FLIR Tools+ has the following features:

- Radiometric Panorama incl. MSX
- Radiometric IR Video Recording
- Advanced Reporting

FLIR Tools/Tools+ is a software suite specifically designed to provide an easy way to update your camera and create inspection reports.

FLIR Tools+ main features:

- Manual IR/Visual Image Grouping
- Radiometric Panorama incl. MSX
- Radiometric IR Video Recording
- Advanced Reporting - Microsoft Office 2007 (32bit), and 2010 (32bit) support
- Report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR).
- Import images from your camera to your computer.
- Apply filters when searching for images.
- Search all text in images and text annotations.
- Store the five latest search criteria's.
- Lay out, move, and resize measurement tools on any infrared image.
- Create PDF imagesheets of any images of your choice.
- Add headers, footers, and logos to imagesheets.
- Create PDF reports for images of your choice.
- Add headers, footers, and logos to reports.
- Report editor (report page preview and snap to grid).
- Sort function (by date, groups sorted by path, and groups sorted by date).
- Browse and purchase infrared cameras, software, and accessories in the webshop.
- Software localized to 21 languages.
- Support for MSX (Multi-Spectral Dynamic Imaging ) Images
- Support for Sketch Images on both IR and Visual with toggling ON/OFF feature.
- Support for Same FOV ( Field of View Match )
- Display of Compass Information in Edit and in Report.
- Display of GPS Information in Edit and in Report.
- Microsoft Windows 7 (32- and 64-bit) and Windows 8 (32- and 64-bit)
- Camera update (applies to FLIR Ex, Kxx, Exx and T6xx series only).

## Download

Download a 30-day evaluation version here:

<http://support.flir.com/toolsplus>

## Release notes

Version	5.2
New features in version 5.2	<ul style="list-style-type: none"> <li>• Support for auto-adjusting a region.</li> <li>• Support for zoom.</li> <li>• Express Microsoft Word reporting (*.docx).</li> <li>• Various bug fixes.</li> </ul>

**P/N: T198583**

© 2015, FLIR Systems, Inc.  
#T198583; r. 25121; en-US

Release notes	
New features in version 5.1	<ul style="list-style-type: none"> <li>Improved import performance.</li> <li>Added support for video recording settings for FLIR Kxx series.</li> <li>Added support for importing video files from FLIR Kxx series.</li> <li>Added support for FLIR C2 camera.</li> <li>Various bug fixes.</li> </ul>
New features in version 5.0	<ul style="list-style-type: none"> <li>Local object parameters for measurement tools.</li> <li>Save a report in-process with the ability to edit at a later time.</li> <li>Pull-down menus for text annotations.</li> <li>Variable playback speed for recordings.</li> <li>Show or hide min./max./avg. temperature, and hot/cold markers, for areas and lines.</li> <li>Smoother display for low-resolution images.</li> <li>UltraMax image enhancement.</li> <li>Dropping support for Windows XP.</li> <li>Various bug fixes.</li> </ul>
New features in version 4.1	<ul style="list-style-type: none"> <li>Previous/next in Edit mode.</li> <li>Clone in the Library.</li> <li>Extract visual photo from a multispectral image.</li> <li>Import *.mp4, *.seq, and *.csq files from the camera.</li> <li>Playback/edit *.seq and *.csq files.</li> <li>Scale enhancement for the FLIR GF3xx series.</li> <li>Auto resize of thumbnails during importing for the FLIR T6xx series.</li> <li>Grouping/ungrouping now added.</li> <li>Various bug fixes.</li> </ul>
New features in version 4.0	<ul style="list-style-type: none"> <li>Support for the new FLIR Ex and Exx series cameras.</li> <li>Interactive quick start guide when connecting a FLIR camera.</li> <li>Improved library view.</li> <li>Support for multispectral images.</li> <li>Support for auto-oriented images.</li> <li>Various bug fixes.</li> </ul>
New features in version 3.1	<ul style="list-style-type: none"> <li>Support for FLIR K series cameras.</li> <li>Interactive quick start guide when connecting a FLIR K series camera.</li> <li>Live image streaming from FLIR K series cameras.</li> <li>PC-side configuration of FLIR K series cameras.</li> <li>New report templates for DC images only added.</li> <li>Various bug fixes.</li> </ul>
New features in version 3.0	<ul style="list-style-type: none"> <li>Add folder to library.</li> <li>Support for isotherms and color alarms</li> <li>Image description for both IR and DC.</li> <li>Export functionality (*.avi, *.csv).</li> <li>Microsoft Windows 8 (32- and 64-bit)</li> <li>New web installer</li> <li>Radiometric panorama with MSX images.</li> <li>Advanced reports.</li> <li>Manual grouping/ungrouping of images.</li> <li>Various bug fixes.</li> </ul>
New features in version 2.2	<ul style="list-style-type: none"> <li>Camera tab: <ul style="list-style-type: none"> <li>Logging feature in Camera Tab</li> <li>Recording and playback of SEQ files.</li> </ul> </li> <li>Various bug fixes.</li> </ul>
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>FLIR Tools+ scratchcard</li> </ul>
Packaging, weight	0.059 kg (0.13 lb.)

**P/N: T198583**

© 2015, FLIR Systems, Inc.  
#T198583; r. 25121; en-US

Shipping information	
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	73325585378 4743254001442 (Estonia plant)
UPC-12	845188005580
Country of origin	Sweden
System requirements	
Operating system	<ul style="list-style-type: none"> <li>Windows XP, 32-bit</li> <li>Windows Vista, 32-bit</li> <li>Windows 7, 32-bit</li> <li>Windows 7, 64-bit</li> <li>Windows 8, 32-bit</li> <li>Windows 8, 64-bit</li> </ul>
Software requirements	<ul style="list-style-type: none"> <li>Office 2007, 32-bit</li> <li>Office 2010, 32-bit</li> <li>Office 2013, 32-bit</li> </ul>

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)

**P/N: T198583**

© 2015, FLIR Systems, Inc.  
#T198583; r. 25121; en-US

- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens

**P/N: T198583**

© 2015, FLIR Systems, Inc.  
#T198583; r. 25121; en-US

- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 63901-0101; FLIR E4
- 63905-0501; FLIR E5
- 63902-0202; FLIR E6
- 63903-0303; FLIR E8

## P/N: DSW-10000

### Copyright

© 2015, FLIR Systems, Inc.

All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: DSW-10000

Commit: 24597

Language: en-US

Modified: 2015-04-09 13:38

Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.

27700 SW Parkway Ave.

Wilsonville, OR 97070

USA

Telephone: +1-503-498-3547

### Website

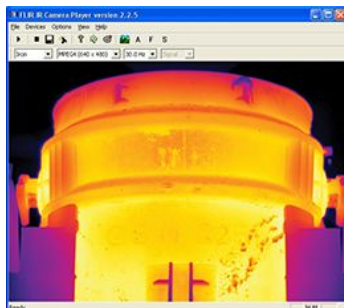
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

FLIR IR Camera Player is a PC-based remote control and viewer that you can use with cameras from FLIR Systems.

You can perform one or more of the following with FLIR IR Camera Player:

- Record a video stream from the camera.
- Save a frame from the video stream as a snapshot image (\*.bmp).
- Autofocus, focus far, and focus near.
- Autoadjust the camera image.
- Freeze the camera image.
- Save a camera image in the camera.
- Change Color palette.
- Add an image description and a text comment to an image.

You connect a camera in one of the following ways:

- Ethernet
- FireWire
- USB

### Download

This software is a freeware. To download, click the following link:

<http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=89>

### Release notes

Version	2.3.3
New features	<p>Main improvements in version 2.3.3:</p> <ul style="list-style-type: none"> <li>• Added latest device drivers (1.9.1.0).</li> <li>• Various bugfixes</li> </ul> <p>Main improvements in version 2.2.7:</p> <ul style="list-style-type: none"> <li>• Added support for FLIR Ax5 series.</li> </ul>

### System requirements

Operating system	<ul style="list-style-type: none"> <li>• Windows XP, 32-bit</li> <li>• Windows Vista, 32-bit/64-bit</li> <li>• Windows 7, 32-bit/64-bit</li> </ul>
------------------	--

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)

**P/N: DSW-10000**

© 2015, FLIR Systems, Inc.  
#DSW-10000; r. 24597; en-US

- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc

**P/N: DSW-10000**

© 2015, FLIR Systems, Inc.  
#DSW-10000; r. 24597; en-US

- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)





---

**P/N: DSW-10000**

© 2015, FLIR Systems, Inc.  
#DSW-10000; r. 24597; en-US

- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: APP-10002

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: APP-10002  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

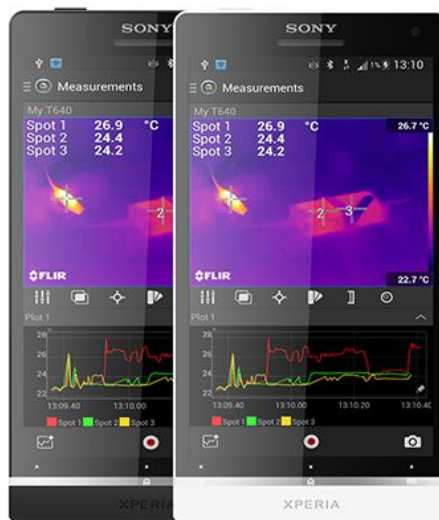
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

FLIR Tools Mobile is an intuitive Android app for analyzing, managing, and distributing infrared images.

#### Key features:

- Remote control
- MSX
- Images with sketch on DC and IR
- Images with field of view follow
- Editable text comments
- Emissivity table
- Import images from your Wi-Fi-enabled camera.
- Connect and stream infrared images from the camera.
- Connect and stream measurement data from FLIR Test & Measurement meters
- Lay out and move measurement tools on the image.
- Read out temperature measurements.
- Create and configure temporal plots based on results of measurement tools on the infrared image.
- Log measurement data and export it as a \*.csv file.
- Save a measurement scenario as a data snapshot.
- Zoom in on images.
- On the Android device, remotely take snapshots when a camera is connected.
- On the camera, take snapshots that will automatically be saved on the Android device.
- Delete images on the Android device.
- Display an image's GPS coordinates on Google Maps.
- Create and e-mail reports.
- Save images in the Android device photo library.
- Send images to FTP sites and other file-sharing services (Dropbox, Box.net, etc.).
- Display image information, e.g., object parameters, text comments, and file details.
- Play back voice comments.
- Change the level and span.
- Change general settings in the app.
- Change the palette.

### Download

The application can be downloaded from Android Market or Amazon Marketplace, see the link below.

<https://market.android.com/details?id=com.flir.viewer>

**P/N: APP-10002**

© 2015, FLIR Systems, Inc.  
#APP-10002; r. 24597; en-US

Release notes	
Version	3.4.0
New features	<p>Main improvements in version 3.4.0:</p> <ul style="list-style-type: none"> <li>• Support for *.csq files.</li> <li>• Various bug fixes.</li> </ul> <p>Main improvements in version 3.2.0:</p> <ul style="list-style-type: none"> <li>• Receive data logs from FLIR DM93.</li> <li>• Save or export data logs in new *.csv format.</li> <li>• Various bug fixes.</li> </ul> <p>Main improvements in version 3.1.0:</p> <ul style="list-style-type: none"> <li>• Added variable level of MSX alpha</li> <li>• Added Fusion Blending mode for images with possibility to adjust level</li> <li>• Stability fixes</li> <li>• Improved memory management</li> <li>• Modified internal handling of measurement results and displaying them.</li> </ul>
System requirements	
Operating system	<ul style="list-style-type: none"> <li>• Android 2.3 and later</li> </ul>

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)

**P/N: APP-10002**

© 2015, FLIR Systems, Inc.  
#APP-10002; r. 24597; en-US

- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: APP-10003

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: APP-10003  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

FLIR Tools Mobile lets professional thermographers use an iPad, iPhone, or iPod touch to see and capture live, streaming infrared video and stills from select FLIR cameras.

With FLIR Tools Mobile the camera can be stationed in one area and operated wirelessly from another – highly useful for IR inspections of energized equipment or performing IR surveys in hard-to-reach locations and harsh working environments. Streaming video and remote access also gives decision makers and others on your team a valuable opportunity to observe and collaborate in the thermal imaging process.

Using FLIR Tools Mobile, you can do one or more of the following:

- Import images from your infrared camera
- Lay out and move measurement tools on the image
- Read out temperature measurements
- Zoom in on images
- On the iPhone/iPad, remotely take snapshots when a camera is connected
- On the camera, take snapshots that will automatically be saved in the iPhone/iPad
- Delete any images on the iPhone/iPad
- Display an image's GPS coordinates on Google Maps
- Create and e-mail imagesheets
- Create and e-mail reports
- Print imagesheets and reports to any AirPrint-enabled printer
- Save images to iPhone/iPad photo library
- Send images to FTP sites and other file sharing services (Dropbox, Box.net, etc.)
- Display image information, such as object parameters, text comments, file information, etc.
- Play-back voice comments
- Change level and span
- Change general settings in the app
- Change palette

**P/N: APP-10003**

© 2015, FLIR Systems, Inc.  
#APP-10003; r. 24597; en-US

General description	
FLIR Tools Mobile lets you take control of the following features on selected cameras:	
<ul style="list-style-type: none"> <li>• Remote control of your FLIR camera.</li> <li>• Support for MSX (Multi-Spectral Dynamic Imaging) images.</li> <li>• Support for sketch images in both IR and visual with on/off toggling.</li> <li>• Support for same FOV ("Field of View Match").</li> <li>• Editable text comments.</li> <li>• Auto and manual focus</li> <li>• Level and span</li> <li>• Color palettes</li> <li>• Temperature measurement analytics</li> <li>• Spot</li> <li>• Area box</li> <li>• Circle</li> <li>• Line</li> <li>• Parameter settings</li> <li>• Emissivity</li> <li>• Reflected temperature</li> <li>• Relative humidity</li> <li>• Atmospheric temperature</li> <li>• IR and visible light image blending</li> <li>• Picture-in-picture</li> <li>• Thermal fusion</li> <li>• Image storage</li> <li>• MPEG 4 video</li> <li>• Radiometric JPEG stills</li> </ul>	
Download	
The application can be downloaded from App Store, see the link below.	
<a href="http://itunes.apple.com/app/flir-tools/id511247887?mt=8">http://itunes.apple.com/app/flir-tools/id511247887?mt=8</a>	
Release notes	
Version	1.5.0
New features	<p>Main improvements in version 1.5.0:</p> <ul style="list-style-type: none"> <li>• Updated for iOS7.</li> <li>• Improved Library.</li> </ul> <p>Main improvements in version 1.3.2:</p> <ul style="list-style-type: none"> <li>• Added remote viewer mode for T4xx and Exx series.</li> <li>• Improved support for anonymous FTP server.</li> <li>• Improved image import from photo gallery.</li> </ul> <p>Main improvements in version 1.3:</p> <ul style="list-style-type: none"> <li>• Support for fusion images.</li> <li>• Marking fusion images with the stacked icon in the library browser.</li> <li>• Switching image modes while editing fusion images.</li> <li>• Switch between fusion IR/DC and grouped images during preview.</li> <li>• Support for landscape and portrait images.</li> <li>• Image parameters can be modified only in edit mode.</li> <li>• Support for FLIR Exx-series cameras.</li> </ul>
System requirements	
Operating system	<ul style="list-style-type: none"> <li>• iOS 4.0 or later</li> </ul>
Hardware requirements	<ul style="list-style-type: none"> <li>• iPhone</li> <li>• iPad</li> <li>• iPod</li> </ul>

**Compatible with the following products**

- N/A

## P/N: APP-10004

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: APP-10004  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
FLIR Tools is a software specifically designed to provide an easy way to analyze infrared images and create inspection reports.	
Using FLIR Tools, you can do one or more of the following:	
<ul style="list-style-type: none"> <li>• Import images from your camera to your computer.</li> <li>• Search for images.</li> <li>• Lay out, move, and resize measurement tools on any infrared image.</li> <li>• Create PDF reports for images of your choice.</li> <li>• Add headers, footers, and logos to reports.</li> <li>• Create new report templates.</li> </ul>	
FLIR Tools lets you take control of the following features on selected cameras:	
<ul style="list-style-type: none"> <li>• Connect an infrared camera to FLIR Tools and display its live image stream.</li> <li>• When the camera is connected, lay out measurement tools, change parameters, create plots, etc.</li> </ul>	
Download	
The application can be downloaded from Mac App Store, see the link below.	
<a href="https://itunes.apple.com/app/flir-tools/id579348845?mt=12">https://itunes.apple.com/app/flir-tools/id579348845?mt=12</a>	
Release notes	
Version	2.1
New features	<p>Main improvements in version 2.1:</p> <ul style="list-style-type: none"> <li>• Support for thermal blending.</li> <li>• Support for groups and multispectral images.</li> <li>• Improved stability.</li> </ul> <p>Main improvements in version 2.0:</p> <ul style="list-style-type: none"> <li>• Connect an infrared camera to FLIR Tools and display its live image stream.</li> <li>• When the camera is connected, lay out measurement tools, change parameters, create plots, etc.</li> <li>• Create new report templates.</li> <li>• Various bug fixes.</li> </ul>
System requirements	
Operating system	<ul style="list-style-type: none"> <li>• OS X 10.7 or later,</li> </ul>
Hardware requirements	<ul style="list-style-type: none"> <li>• MacOS</li> </ul>

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)

**P/N: APP-10004**

© 2015, FLIR Systems, Inc.  
#APP-10004; r. 24597; en-US

- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)



## P/N: T199836

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T199836  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The Extended Warranty Package covers parts and labour for your IR camera, consumables not included.

FLIR Systems warrants its products to be free from defects caused by faulty material or poor workmanship, for a period specified above. NO PRODUCT IS WARRANTED TO BE MERCHANTABLE OR FIT FOR ANY PARTICULAR USE OR APPLICATION. The warranty is void if the buyer damages the item due to misuse, abuse, modification, processing, or integration with other items. FLIR Systems' maximum liability under this warranty is limited to the obligation to replace or, at its sole option, to credit Buyer's account up to the purchase price.

### Download

Contact info can be found at:

<http://support.flir.com>

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)



One year extended warranty for T6xx series

---

**P/N: T199836**

© 2015, FLIR Systems, Inc.  
#T199836; r. 24597; en-US

- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)

## P/N: T199838

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T199838  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

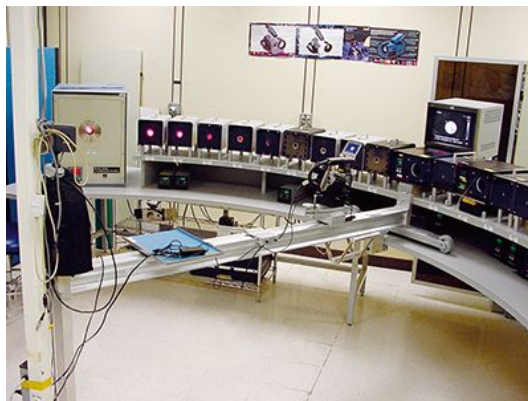
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

General Maintenance package offers a complete 14 points inspection and calibration service (for one lens combination). Shipping cost not included.

#### 14-point inspection program:

- Perform a complete operational check.
- Fusion calibration and laser alignment, when applicable.
- Verify all internal cable and PCB connections.
- Clean the viewfinder and check the optics.
- Upgrade the internal camera software to the latest revisions.
- Perform minor repairs.
- Verify and/or re-equalize as needed each temperature range for image uniformity.
- Verify standard lens calibration (optional: other or specially engineered lenses).
- Verify ambient temperature compensation as needed.
- Recalibration to ensure factory specifications are met.
- Calibrate temperature ranges up to +1500°C, when applicable.
- Perform a quality-approved acceptance test procedure.
- Provide a calibration label with the next due date.
- Provide a calibration certificate (optional: extended calibration certificate with measured values).

### Download

Contact info can be found at:

<http://support.flir.com>

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)



---

**P/N: T199838**

© 2015, FLIR Systems, Inc.  
#T199838; r. 23306; en-US

- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)

## P/N: ITC-FEE-0120

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-FEE-0120  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Certification DIN EN ISO 9712 TT Category 1	
Course information	
Available languages	DACH only
Course details	
Duration	1 day

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)

---

**P/N: ITC-FEE-0120**

© 2015, FLIR Systems, Inc.

#ITC-FEE-0120; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-CER-6101

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-6101  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
DIN EN ISO 9712 TT Category 1 Certification course, excl. Certification, 1 pers.	
Course information	
Available languages	DACH only
Course details	
Duration	5 days

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)

---

**P/N: ITC-CER-6101**

© 2015, FLIR Systems, Inc.

#ITC-CER-6101; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5



## P/N: ITC-CER-6109

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-6109  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
DIN EN ISO 9712 TT Category 1 Certification course, excl. Certification, group up to 10 pers.	
Course information	
Available languages	DACH only
Course details	
Duration	5 days

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)

---

**P/N: ITC-CER-6109**

© 2015, FLIR Systems, Inc.

#ITC-CER-6109; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-ADV-3011

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3011  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course bridges the gap between IR thermography, background science and application theory. The participant will learn the physical concepts of heat transfer and apply them together with relevant building science. After the course, the participant will be able to do a qualified building inspection on the base of existing laws, standards, and regulations.

Note: This course refers mainly to European building standards. Please consult ITC before selling it in other countries.

### Content

- Introduction and refresher of IR basics
- Thermal transfer and wall structures
- Insulating materials
- Humidity, moisture, and the dew point
- Air leaks, pressure profiles, and air permeability
- Survey methodology

### Labs

- Outside inspection
- Air permeability test (with Blower Door)
- Reporting

### Course information

Available languages	English
Target group	<ul style="list-style-type: none"> <li>• Professional users in building applications who want to become experts in Building Thermography.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Knows how to operate the camera</li> <li>• Knows how to report</li> <li>• Has a background in a building profession, but rather moderate experience in IR or has experience in another IR application field but rather moderate knowledge in building science</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Valid Level 1 thermography certificate</li> <li>• IR related education and experience</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Knowledge of building techniques</li> <li>• Bring own PC for calculations and exercises</li> </ul>

**P/N: ITC-ADV-3011**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3011; r. 23306; en-US

Course details	
Duration	3 days (24 hours)
Structure	Theory takes place in the mornings, practical labs, calculations, and software exercises are scheduled for the afternoons.
Exam	A final test (20 multiple choice questions) will be written on the 3rd day in the afternoon. In connection, the correct answers will be discussed by the instructor and the participants.
Course fee includes	<ul style="list-style-type: none"><li>• Tuition by ITC licensed instructor</li><li>• Training material in printed format</li><li>• Refreshments</li><li>• Diploma of attendance</li><li>• Attendance of 1 person</li><li>• Might include more, such as lunch, depending on location and organizing entity</li></ul>
Course organization	
ITC	The Advanced Building Course is offered worldwide by ITC as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC.
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach the Advanced Building Course.

**Compatible with the following products**

- N/A

## P/N: ITC-ADV-3019

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3019  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course bridges the gap between IR thermography, background science and application theory. The participant will learn the physical concepts of heat transfer and apply them together with relevant building science. After the course, the participant will be able to do a qualified building inspection on the base of existing laws, standards, and regulations.

Note: This course refers mainly to European building standards. Please consult ITC before selling it in other countries.

### Content

- Introduction and refresher of IR basics
- Thermal transfer and wall structures
- Insulating materials
- Humidity, moisture, and the dew point
- Air leaks, pressure profiles, and air permeability
- Survey methodology

### Labs

- Outside inspection
- Air permeability test (with Blower Door)
- Reporting

### Course information

Available languages	English
Target group	<ul style="list-style-type: none"> <li>• Professional users in building applications who want to become experts in Building Thermography.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Knows how to operate the camera</li> <li>• Knows how to report</li> <li>• Has a background in a building profession, but rather moderate experience in IR or has experience in another IR application field but rather moderate knowledge in building science</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Valid Level 1 thermography certificate</li> <li>• IR related education and experience</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Knowledge of building techniques</li> <li>• Bring own PC for calculations and exercises</li> </ul>

**P/N: ITC-ADV-3019**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3019; r. 23306; en-US

Course details	
Duration	3 days (24 hours)
Structure	Theory takes place in the mornings, practical labs, calculations, and software exercises are scheduled for the afternoons.
Exam	A final test (20 multiple choice questions) will be written on the 3rd day in the afternoon. In connection, the correct answers will be discussed by the instructor and the participants.
Course fee includes	<ul style="list-style-type: none"><li>• Tuition by ITC licensed instructor</li><li>• Training material in printed format</li><li>• Refreshments</li><li>• Diploma of attendance</li><li>• Attendance of a group up to 10 persons</li><li>• Might include more, such as lunch, instructor's travel expenses, etc. depending on location and organizing entity</li></ul>
Course organization	
ITC	The Advanced Building Course is offered worldwide by ITC as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC.
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach the Advanced Building Course.

**Compatible with the following products**

- N/A

## P/N: ITC-ADV-3021

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3021  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This interdisciplinary course bridges the gap between IR thermography, background science and application theory. Being an overview course it deals with three main application fields of thermography: electrical, industrial, and building. For every application the participant will learn about the specific theory, typical faults, and how to detect them with a thermography camera. The student will also learn about the basics of condition monitoring, and maintenance.

Examples and case studies from the real world illustrate the course content and are discussed with the participants. Participants will be trained in discovering and identifying typical faults by typical thermal patterns.

### Content

- Introduction
- Electrical Applications (current, voltage, resistance, electrical systems, Ohm's law, some important properties of materials, typical faults, surveying methodology and criteria, safety, voltage limits)
- Industrial Applications (bearings, pumps, gears, belts, misalignment and couplings, gaskets, seals, rings, glands, steam traps, furnaces)
- Building Applications (definition of the building envelope, steady state thermal transfer in a building envelope, transient thermal transfer in a building envelope, applications)

### Course information

Available languages	
English	
Target group	<ul style="list-style-type: none"> <li>• Professional thermographers holding a Level 1 or a Level 2 certificate and</li> <li>• with interest in increasing their knowledge of different thermographic applications, and their limitations or</li> <li>• with a special interest in condition monitoring of machines</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Knows how to operate the camera</li> <li>• Knows how to report</li> <li>• Works in the industry with e.g. maintenance and condition monitoring or is a consultant</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Valid Level 1 thermography certificate</li> <li>• IR related education and experience</li> </ul>



**P/N: ITC-ADV-3021**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3021; r. 23306; en-US

Course details	
Duration	3 days (24 hours)
Structure	The course is divided into the three parts: Electrical Applications, Industrial Applications, and Building Applications. Theory sessions and case studies including interactive discussions alternate.
Exam	A final exam (30 multiple choice questions) will be written on the 3d day in the afternoon. In connection, the correct answers will be discussed by the instructor and the participants.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Attendance of 1 person</li> <li>• Might include more, such as lunch, depending on location and organizing entity</li> </ul>
Course organization	
ITC	The Advanced General Thermography Course is offered worldwide by ITC as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary.
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Advanced General Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)



**P/N: ITC-ADV-3021**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3021; r. 23306; en-US

- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC

---

**P/N: ITC-ADV-3021**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3021; r. 23306; en-US

- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-ADV-3029

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3029  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This interdisciplinary course bridges the gap between IR thermography, background science and application theory. Being an overview course it deals with three main application fields of thermography: electrical, industrial, and building. For every application the participant will learn about the specific theory, typical faults, and how to detect them with a thermography camera. The student will also learn about the basics of condition monitoring, and maintenance.

Examples and case studies from the real world illustrate the course content and are discussed with the participants. Participants will be trained in discovering and identifying typical faults by typical thermal patterns.

### Content

- Introduction
- Electrical Applications (current, voltage, resistance, electrical systems, Ohm's law, some important properties of materials, typical faults, surveying methodology and criteria, safety, voltage limits)
- Industrial Applications (bearings, pumps, gears, belts, misalignment and couplings, gaskets, seals, rings, glands, steam traps, furnaces)
- Building Applications (definition of the building envelope, steady state thermal transfer in a building envelope, transient thermal transfer in a building envelope, applications)

### Course information

Available languages	
English	
Target group	
<ul style="list-style-type: none"> <li>• Professional thermographers holding a Level 1 or a Level 2 certificate and</li> <li>• with interest in increasing their knowledge of different thermographic applications, and their limitations or</li> <li>• with a special interest in condition monitoring of machines</li> </ul>	
Typical student	
<ul style="list-style-type: none"> <li>• Knows how to operate the camera</li> <li>• Knows how to report</li> <li>• Works in the industry with e.g. maintenance and condition monitoring or is a consultant</li> </ul>	
Pre-requisites	
<ul style="list-style-type: none"> <li>• Valid Level 1 thermography certificate</li> <li>• IR related education and experience</li> </ul>	

**P/N: ITC-ADV-3029**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3029; r. 23306; en-US

Course details	
Duration	3 days (24 hours)
Structure	The course is divided into the three parts: Electrical Applications, Industrial Applications, and Building Applications. Theory sessions and case studies including interactive discussions alternate.
Exam	A final exam (30 multiple choice questions) will be written on the 3d day in the afternoon. In connection, the correct answers will be discussed by the instructor and the participants.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Attendance of a group up to 10 persons</li> <li>• Might include more, such as lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	The Advanced General Thermography Course is offered worldwide by ITC as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary.
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Advanced General Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)

**P/N: ITC-ADV-3029**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3029; r. 23306; en-US

- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL

---

**P/N: ITC-ADV-3029**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3029; r. 23306; en-US

- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-ADV-3061

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3061  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
ITC Advanced Thermal applications course - attendance 1 pers. (3 days)	
Course information	
Available languages	DACH only
Course details	
Duration	3 days

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)

**P/N: ITC-ADV-3061**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3061; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°





---

**P/N: ITC-ADV-3061**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3061; r. 23306; en-US

- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-ADV-3069

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3069  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
ITC Advanced Thermal applications course - group up to 10 pers. (3 days)	
Course information	
Available languages	DACH only
Course details	
Duration	3 days

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)

**P/N: ITC-ADV-3069**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3069; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°



**P/N: ITC-ADV-3069**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3069; r. 23306; en-US

- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-CON-1001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CON-1001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

ITC conference fee

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-CON-1001**

© 2015, FLIR Systems, Inc.

#ITC-CON-1001; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-CON-1001**

© 2015, FLIR Systems, Inc.

#ITC-CON-1001; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-EXP-0511

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-0511  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
ITC Getting Started with Thermography - attendance, 1 pers.	
Course information	
Available languages	DE, FR, IT, NL, SE
Course details	
Duration	4 hours

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)





---

**P/N: ITC-EXP-0511**

© 2015, FLIR Systems, Inc.

#ITC-EXP-0511; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-EXP-0521

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-0521  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
ITC Getting Started with Thermography (evening or weekend) - attendance, 1 pers.	
Course information	
Available languages	DE, FR, IT, NL, SE
Course details	
Duration	4 hours

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)

---

**P/N: ITC-EXP-0521**

© 2015, FLIR Systems, Inc.

#ITC-EXP-0521; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-EXP-1021

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1021  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

An on-site training can be customized upon your needs. The participants will learn about IR thermography, inspections, measurements, applications, and reporting corresponding to the level needed for performing measurements and inspection in their working environment. The trainer will give useful advice on how to best implement IR thermography in your business.

This partnumber is reserved for adding additional students to an on site class.

### Content

- An on-site course can be any course, from a 1-day introduction to general thermography, over a customized application course to a complete certification course.

### Labs

- Portable classroom labs
- Field training on the site in agreement with the customer

### Course information

Available languages	English, Dutch, German, French, Italian, Spanish, Swedish, other languages upon request
Target group	<ul style="list-style-type: none"> <li>• Employees of a company or certain departments who would like to minimize travel costs and receive the training directly on their daily working site.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>

### Course details

Duration	Customized or according to the kind of course the in-house training is equivalent to.
Structure	Theory, camera handling, demos, practical labs and field training alternate.

**P/N: ITC-EXP-1021**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1021; r. 23306; en-US

Course details	
Exam	Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> </ul>
Course organization	
ITC	ITC In-house courses are offered worldwide by ITC and partners as listed. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	ITC In-house courses are lectured by ITC qualified instructors with experience in the relevant fields of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm

**P/N: ITC-EXP-1021**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1021; r. 23306; en-US

- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°

**P/N: ITC-EXP-1021**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1021; r. 23306; en-US

- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-1029

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1029  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
An on-site training can be customized upon your needs. The participants will learn about IR thermography, inspections, measurements, applications, and reporting corresponding to the level needed for performing measurements and inspection in their working environment. The trainer will give useful advice on how to best implement IR thermography in your business.	
Content	
<ul style="list-style-type: none"> <li>An on-site course can be any course, from a 1-day introduction to general thermography, over a customized application course to a complete certification course.</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Portable classroom labs</li> <li>Field training on the site in agreement with the customer</li> </ul>	
Course information	
Available languages	English, Dutch, German, French, Italian, Spanish, Swedish, other languages upon request
Target group	<ul style="list-style-type: none"> <li>Employees of a company or certain departments who would like to minimize travel costs and receive the training directly on their daily working site.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>
Course details	
Duration	Customized or according to the kind of course the in-house training is equivalent to.
Structure	Theory, camera handling, demos, practical labs and field training alternate.
Exam	Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.



**P/N: ITC-EXP-1029**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1029; r. 23306; en-US

Course details	
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> </ul>
Note	Course fee does not include cost for instructor's travelling or lodging. When organized at the customers' site, the customer is responsible for providing a suitable classroom and preferably also refreshments/lunch.
Course organization	
ITC	ITC In-house courses are offered worldwide by ITC and partners as listed. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	ITC In-house courses are lectured by ITC qualified instructors with experience in the relevant fields of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)

**P/N: ITC-EXP-1029**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1029; r. 23306; en-US

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL

**P/N: ITC-EXP-1029**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1029; r. 23306; en-US

- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-CER-5105

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5105  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 1 certified thermographer. The participant will learn about the basics of infrared, how to operate the camera under different conditions and for various purposes, how to do an appropriate judgement of the measurement situation in the field and how to identify potential error sources. After the class, the participant will be able to do IR inspections following written guidelines and to report the result of this inspection.

This partnumber is reserved for adding additional students to a level 1 on site class.

### Content

- Introduction to Thermography
- Camera Operation
- Basic physics of heat
- Basic physics of infrared
- Thermal pattern recognition and IR applications
- IR temperature measurement techniques
- Qualitative and quantitative thermography
- Inspection routines and reporting

### Student presentations

During the seminar, students will generate a small case study based on the lab exercises to be presented to the class.

### Labs

- Camera handling
- Level and Span
- Conduction pattern
- Forced convection
- Direct and indirect thermal measurement
- Thermal capacity
- Steady state and transient heat flow
- Evaporation and condensation
- Electrical application
- Emissivity and Reflected apparent temperature
- Spatial resolution
- Location and temperature measurement of a hot/cold spot
- Image transfer to the computer

**P/N: ITC-CER-5105**

© 2015, FLIR Systems, Inc.

#ITC-CER-5105; r. 23306; en-US

Course information	
Available languages	Chinese, Danish, Dutch, English, Finish, French, German, Greek, Hebrew, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (bra.), Romanian, Russian, Serbo-Croatian, Spanish, Swedish, Thai
Target group	<ul style="list-style-type: none"> <li>• Practical user</li> <li>• This course is designed for beginners in thermography with some experience in camera handling and limited IR knowledge, who want to take their first step to become a professional thermographer and want to qualify as a Level 1 certified thermographer.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>• having already some basic experience with IR thermography,</li> <li>• knowing the basic functions of the camera,</li> <li>• who wants to become a certified thermographer in order to gain a competitive advantage or who needs the certifications because of legal reasons or company internal regulations.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Be familiar with the basic operation of an infrared camera</li> <li>• Have the recommended experience within thermography according to relevant standards</li> </ul>

Course details	
Duration	35 – 40 hours
Structure	Theory and camera practice (hands-on) alternate every day, additional labs and software exercises at some days.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>• Attendance of 1 person</li> <li>• Might include more, such as lunch, depending on location and organizing entity</li> </ul>
Note	Only for non-EURO, non-SEK, non NOK, non- £, -non CHF countries

Course organization	
ITC	The Level 1 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)

**P/N: ITC-CER-5105**

© 2015, FLIR Systems, Inc.

#ITC-CER-5105; r. 23306; en-US

- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc

**P/N: ITC-CER-5105**

© 2015, FLIR Systems, Inc.

#ITC-CER-5105; r. 23306; en-US

- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-CER-5101

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5101  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 1 certified thermographer. The participant will learn about the basics of infrared, how to operate the camera under different conditions and for various purposes, how to do an appropriate judgement of the measurement situation in the field and how to identify potential error sources. After the class, the participant will be able to do IR inspections following written guidelines and to report the result of this inspection.

### Content

- Introduction to Thermography
- Camera Operation
- Basic physics of heat
- Basic physics of infrared
- Thermal pattern recognition and IR applications
- IR temperature measurement techniques
- Qualitative and quantitative thermography
- Inspection routines and reporting

### Student presentations

During the seminar, students will generate a small case study based on the lab exercises to be presented to the class.

### Labs

- Camera handling
- Level and Span
- Conduction pattern
- Forced convection
- Direct and indirect thermal measurement
- Thermal capacity
- Steady state and transient heat flow
- Evaporation and condensation
- Electrical application
- Emissivity and Reflected apparent temperature
- Spatial resolution
- Location and temperature measurement of a hot/cold spot
- Image transfer to the computer



**P/N: ITC-CER-5101**

© 2015, FLIR Systems, Inc.

#ITC-CER-5101; r. 23306; en-US

<b>Course information</b>	
Available languages	Chinese, Danish, Dutch, English, Finish, French, German, Greek, Hebrew, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (bra.), Romanian, Russian, Serbo-Croatian, Spanish, Swedish, Thai
Target group	<ul style="list-style-type: none"> <li>• Practical user</li> <li>• This course is designed for beginners in thermography with some experience in camera handling and limited IR knowledge, who want to take their first step to become a professional thermographer and want to qualify as a Level 1 certified thermographer.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>• having already some basic experience with IR thermography,</li> <li>• knowing the basic functions of the camera,</li> <li>• who wants to become a certified thermographer in order to gain a competitive advantage or who needs the certifications because of legal reasons or company internal regulations.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Be familiar with the basic operation of an infrared camera</li> <li>• Have the recommended experience within thermography according to relevant standards</li> </ul>

<b>Course details</b>	
Duration	35 – 40 hours
Structure	Theory and camera practice (hands-on) alternate every day, additional labs and software exercises at some days.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>• Attendance of 1 person</li> <li>• Might include more, such as lunch, depending on location and organizing entity</li> </ul>

<b>Course organization</b>	
ITC	The Level 1 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)

**P/N: ITC-CER-5101**

© 2015, FLIR Systems, Inc.

#ITC-CER-5101; r. 23306; en-US

- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)

**P/N: ITC-CER-5101**

© 2015, FLIR Systems, Inc.

#ITC-CER-5101; r. 23306; en-US

- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-CER-5109

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5109  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 1 certified thermographer. The participant will learn about the basics of infrared, how to operate the camera under different conditions and for various purposes, how to do an appropriate judgement of the measurement situation in the field and how to identify potential error sources. After the class, the participant will be able to do IR inspections following written guidelines and to report the result of this inspection.

### Content

- Introduction to Thermography
- Camera Operation
- Basic physics of heat
- Basic physics of infrared
- Thermal pattern recognition and IR applications
- IR temperature measurement techniques
- Qualitative and quantitative thermography
- Inspection routines and reporting

### Student presentations

During the seminar, students will generate a small case study based on the lab exercises to be presented to the class.

### Labs

- Camera handling
- Level and Span
- Conduction pattern
- Forced convection
- Direct and indirect thermal measurement
- Thermal capacity
- Steady state and transient heat flow
- Evaporation and condensation
- Electrical application
- Emissivity and Reflected apparent temperature
- Spatial resolution
- Location and temperature measurement of a hot/cold spot
- Image transfer to the computer

**P/N: ITC-CER-5109**

© 2015, FLIR Systems, Inc.

#ITC-CER-5109; r. 23306; en-US

Course information	
Available languages	Chinese, Danish, Dutch, English, Finish, French, German, Greek, Hebrew, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (bra.), Romanian, Russian, Serbo-Croatian, Spanish, Swedish, Thai
Target group	<ul style="list-style-type: none"> <li>Practical user</li> <li>This course is designed for beginners in thermography with some experience in camera handling and limited IR knowledge, who want to take their first step to become a professional thermographer and want to qualify as a Level 1 certified thermographer.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>having already some basic experience with IR thermography,</li> <li>knowing the basic functions of the camera,</li> <li>who wants to become a certified thermographer in order to gain a competitive advantage or who needs the certifications because of legal reasons or company internal regulations.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Be familiar with the basic operation of an infrared camera</li> <li>Have the recommended experience within thermography according to relevant standards</li> </ul>

Course details	
Duration	35 – 40 hours
Structure	Theory and camera practice (hands-on) alternate every day, additional labs and software exercises at some days.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>

Course organization	
ITC	The Level 1 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)

**P/N: ITC-CER-5109**

© 2015, FLIR Systems, Inc.

#ITC-CER-5109; r. 23306; en-US

- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310

**P/N: ITC-CER-5109**

© 2015, FLIR Systems, Inc.

#ITC-CER-5109; r. 23306; en-US

- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-CER-5205

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5205  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 2 certified thermographer. The participant will learn about topics in infrared thermography to increase the knowledge about infrared physics, heat science, infrared measurement equipment and its application. As a Level 2 thermographer the participant shall provide guidance to category 1 personnel in the areas of equipment selection, techniques, limitations, data analysis, corrective actions and reporting.

This partnumber is reserved for adding additional students to a level 2 on site class.

### Content

- Thermal science
- Heat transfer
- Temperature measurement
- Infrared science
- IR equipment and applications

### Student presentations

During the seminar, students shall present a prepared case study to the class. The maximum duration (excl. discussion) should be 7 minutes and the maximum number of 7 slides should not be exceeded.

### Labs (Note: Labs marked "(M)" are mandatory)

- Newton's law (class lab) (M)
- Advanced emissivity measurement (M)
- Variation of emissivity with the angle (M)
- Transient thermal transfer
- Indirect power measurement (M)
- IR-window transmission (M)
- Slit Response Function
- Hole Response Function (M)
- Parallel circuits

### Course information

Available languages	Dutch, English, German, French, Italian, Portuguese (bra.), Spanish, Swedish
Target group	<ul style="list-style-type: none"> <li>• Professional user</li> <li>• This course is designed for thermographers holding a Level 1 certificate, who want to increase their knowledge about IR thermography and who want to qualify as a Level 2 certified thermographer.</li> </ul>



**P/N: ITC-CER-5205**

© 2015, FLIR Systems, Inc.

#ITC-CER-5205; r. 23306; en-US

Course information	
Typical student	<ul style="list-style-type: none"> <li>A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>having several months of professional experience within thermography,</li> <li>versed in camera operation and reporting,</li> <li>holding a Level 1 certificate,</li> <li>who needs the Level 2 Certification for guidance and supervision of other thermographers or is interested in deeper understanding of IR thermography.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Valid Level 1 thermography certificate,</li> <li>Recommended experience within thermography according to relevant standards,</li> <li>Prepared case study to be presented at the Level 2 course and submitted towards qualification at course closing.</li> </ul>
Course details	
Duration	40 hours
Structure	Theory, camera practice (hands-on), and prepared case studies alternate every day.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>Attendance of 1 person</li> <li>Might include more, such as lunch, depending on location and organizing entity.</li> </ul>
Note	Only for non-EURO, non-SEK, non NOK, non- £, -non CHF countries
Course organization	
ITC	The Level 2 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in T560393 Courses offered by ITC partners. Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)

**P/N: ITC-CER-5205**

© 2015, FLIR Systems, Inc.

#ITC-CER-5205; r. 23306; en-US

- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°

**P/N: ITC-CER-5205**

© 2015, FLIR Systems, Inc.

#ITC-CER-5205; r. 23306; en-US

- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-CER-5201

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5201  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 2 certified thermographer. The participant will learn about topics in infrared thermography to increase the knowledge about infrared physics, heat science, infrared measurement equipment and its application. As a Level 2 thermographer the participant shall provide guidance to category 1 personnel in the areas of equipment selection, techniques, limitations, data analysis, corrective actions and reporting.

#### Content

- Thermal science
- Heat transfer
- Temperature measurement
- Infrared science
- IR equipment and applications

#### Student presentations

During the seminar, students shall present a prepared case study to the class. The maximum duration (excl. discussion) should be 7 minutes and the maximum number of 7 slides should not be exceeded.

#### Labs (Note: Labs marked "(M)" are mandatory)

- Newton's law (class lab) (M)
- Advanced emissivity measurement (M)
- Variation of emissivity with the angle (M)
- Transient thermal transfer
- Indirect power measurement (M)
- IR-window transmission (M)
- Slit Response Function
- Hole Response Function (M)
- Parallel circuits

### Course information

Available languages	Dutch, English, German, French, Italian, Portuguese (bra.), Spanish, Swedish
Target group	<ul style="list-style-type: none"> <li>• Professional user</li> <li>• This course is designed for thermographers holding a Level 1 certificate, who want to increase their knowledge about IR thermography and who want to qualify as a Level 2 certified thermographer.</li> </ul>

**P/N: ITC-CER-5201**

© 2015, FLIR Systems, Inc.

#ITC-CER-5201; r. 23306; en-US

Course information	
Typical student	<ul style="list-style-type: none"> <li>A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>having several months of professional experience within thermography,</li> <li>versed in camera operation and reporting,</li> <li>holding a Level 1 certificate,</li> <li>who needs the Level 2 Certification for guidance and supervision of other thermographers or is interested in deeper understanding of IR thermography.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Valid Level 1 thermography certificate,</li> <li>Recommended experience within thermography according to relevant standards,</li> <li>Prepared case study to be presented at the Level 2 course and submitted towards qualification at course closing.</li> </ul>
Course details	
Duration	40 hours
Structure	Theory, camera practice (hands-on), and prepared case studies alternate every day.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>Attendance of 1 person</li> <li>Might include more, such as lunch, depending on location and organizing entity.</li> </ul>
Course organization	
ITC	The Level 2 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in T560393 Courses offered by ITC partners. Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)

**P/N: ITC-CER-5201**

© 2015, FLIR Systems, Inc.

#ITC-CER-5201; r. 23306; en-US

- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°

**P/N: ITC-CER-5201**

© 2015, FLIR Systems, Inc.

#ITC-CER-5201; r. 23306; en-US

- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-CER-5209

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5209  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 2 certified thermographer. The participant will learn about topics in infrared thermography to increase the knowledge about infrared physics, heat science, infrared measurement equipment and its application. As a Level 2 thermographer the participant shall provide guidance to category 1 personnel in the areas of equipment selection, techniques, limitations, data analysis, corrective actions and reporting.

### Content

- Thermal science
- Heat transfer
- Temperature measurement
- Infrared science
- IR equipment and applications

### Student presentations

During the seminar, students shall present a prepared case study to the class. The maximum duration (excl. discussion) should be 7 minutes and the maximum number of 7 slides should not be exceeded.

### Labs (Note: Labs marked "(M)" are mandatory)

- Newton's law (class lab) (M)
- Advanced emissivity measurement (M)
- Variation of emissivity with the angle (M)
- Transient thermal transfer
- Indirect power measurement (M)
- IR-window transmission (M)
- Slit Response Function
- Hole Response Function (M)
- Parallel circuits

### Course information

Available languages	Dutch, English, German, French, Italian, Portuguese (bra.), Spanish, Swedish
Target group	<ul style="list-style-type: none"> <li>• Professional user</li> <li>• This course is designed for thermographers holding a Level 1 certificate, who want to increase their knowledge about IR thermography and who want to qualify as a Level 2 certified thermographer.</li> </ul>



**P/N: ITC-CER-5209**

© 2015, FLIR Systems, Inc.

#ITC-CER-5209; r. 23306; en-US

Course information	
Typical student	<ul style="list-style-type: none"> <li>A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>having several months of professional experience within thermography,</li> <li>versed in camera operation and reporting,</li> <li>holding a Level 1 certificate,</li> <li>who needs the Level 2 Certification for guidance and supervision of other thermographers or is interested in deeper understanding of IR thermography.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Valid Level 1 thermography certificate,</li> <li>Recommended experience within thermography according to relevant standards,</li> <li>Prepared case study to be presented at the Level 2 course and submitted towards qualification at course closing.</li> </ul>
Course details	
Duration	40 hours
Structure	Theory, camera practice (hands-on), and prepared case studies alternate every day.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as lunch, instructor's travel expenses, etc. depending on location and organizing entity.</li> </ul>
Course organization	
ITC	The Level 2 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in T560393 Courses offered by ITC partners. Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)

**P/N: ITC-CER-5209**

© 2015, FLIR Systems, Inc.

#ITC-CER-5209; r. 23306; en-US

- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°

**P/N: ITC-CER-5209**

© 2015, FLIR Systems, Inc.

#ITC-CER-5209; r. 23306; en-US

- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-PRA-2011

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-PRA-2011  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

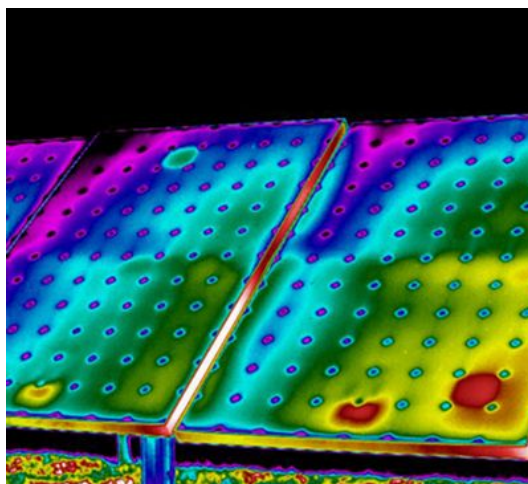
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course gives a general introduction to IR thermography and an overview on its specific use for inspections of photovoltaic solar systems.

During the first day, you learn about the basics of thermography, how a thermal camera works, and how to use it correctly. The second day starts with the basics of photovoltaic solar systems and solar panel installations. You learn about IR metrological particularities that are critical for solar panel inspections with a thermal camera, how to interpret the displayed thermal images, and in which way they can be associated to typical problems and faults. Emphasis is put on case studies, selected from the field, as well as practical exercises.

### Content

- Basics of thermography (radiation, spectral waveband, influences of the atmosphere)
- IR camera: principle, design and operation (FPA, measurement ranges, thermal tuning: level and span, color palettes)
- IR measurement technique: measurement parameters (emissivity, radiation from the environment, distance, relative humidity, atmospheric temperature)
- IR Camera figures of merit: resolution limits (thermal, spatial, time related)
- Practical exercises
- Basics of photovoltaic solar systems (terminology, design, principle of operation, module types)
- Solar panel installation: connection types (string, bypass diodes, shadowing)
- IR metrological particularity (spectral bands, inspection conditions, spatial resolution, camera positioning and angle)
- Typical thermal readouts (examples, causes and interpretation – defect/no defect, practical exercises)

### Course information

Available languages	English, French, German, Swedish, Italian, Dutch, Spanish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in the use of IR thermography for the inspection of photovoltaic solar systems.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person working with maintenance or installation of solar panels.</li> <li>• Thermographers familiar with electrical inspections and interested in solar panel inspections.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic knowledge in electrical installations or another technical field.</li> </ul>

### Course details

Duration	2 days
Structure	Theory, camera handling, demos and practical labs alternate.

**P/N: ITC-PRA-2011**

© 2015, FLIR Systems, Inc.

#ITC-PRA-2011; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by qualified ITC instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Might include more, such as lunch, depending on location</li> </ul>
Course organization	
ITC	The "ITC Practical Course Solar panel inspection" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC or ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Practical Course Solar panel inspection" is lectured by qualified ITC instructors with special experience in the field of solar panel installations.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5



---

**P/N: ITC-PRA-2011**

© 2015, FLIR Systems, Inc.

#ITC-PRA-2011; r. 23306; en-US

- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-PRA-2019

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-PRA-2019  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

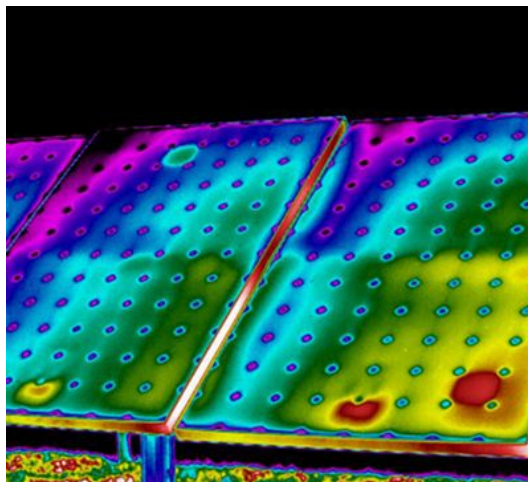
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course gives a general introduction to IR thermography and an overview on its specific use for inspections of photovoltaic solar systems.

During the first day, you learn about the basics of thermography, how a thermal camera works, and how to use it correctly. The second day starts with the basics of photovoltaic solar systems and solar panel installations. You learn about IR metrological particularities that are critical for solar panel inspections with a thermal camera, how to interpret the displayed thermal images, and in which way they can be associated to typical problems and faults. Emphasis is put on case studies, selected from the field, as well as practical exercises.

### Content

- Basics of thermography (radiation, spectral waveband, influences of the atmosphere)
- IR camera: principle, design and operation (FPA, measurement ranges, thermal tuning: level and span, color palettes)
- IR measurement technique: measurement parameters (emissivity, radiation from the environment, distance, relative humidity, atmospheric temperature)
- IR Camera figures of merit: resolution limits (thermal, spatial, time related)
- Practical exercises
- Basics of photovoltaic solar systems (terminology, design, principle of operation, module types)
- Solar panel installation: connection types (string, bypass diodes, shadowing)
- IR metrological particularity (spectral bands, inspection conditions, spatial resolution, camera positioning and angle)
- Typical thermal readouts (examples, causes and interpretation – defect/no defect, practical exercises)

### Course information

Available languages	English, French, German, Swedish, Italian, Dutch, Spanish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in the use of IR thermography for the inspection of photovoltaic solar systems.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person working with maintenance or installation of solar panels.</li> <li>• Thermographers familiar with electrical inspections and interested in solar panel inspections.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic knowledge in electrical installations or another technical field.</li> </ul>

### Course details

Duration	2 days
Structure	Theory, camera handling, demos and practical labs alternate.
Exam	None

**P/N: ITC-PRA-2019**

© 2015, FLIR Systems, Inc.

#ITC-PRA-2019; r. 23306; en-US

Course details	
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by qualified ITC instructor</li> <li>• Training material in printed format</li> <li>• Diploma of attendance</li> <li>• Attendance of a group up to 10 persons</li> <li>• Might include more, such as refreshments or lunch, depending on location.</li> </ul>
Note	Course fee does not include cost for instructor's travelling or lodging.
Course organization	
ITC	The "ITC Practical Course Solar panel inspection" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC or ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Practical Course Solar panel inspection" is lectured by qualified ITC instructors with special experience in the field of solar panel installations.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3





**P/N: ITC-PRA-2019**

© 2015, FLIR Systems, Inc.

#ITC-PRA-2019; r. 23306; en-US

- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-2019

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2019  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course gives a general introduction to IR thermography and an overview on its specific use for the inspection of buildings. It aims at giving you clues on what you can do with your camera.

During the first day, you learn the basics of thermography and how to use your camera the best way. The second day you will start with a brief reminder of thermal transfers before you learn about the building envelope, important physical parameters and typical faults. Emphasis is put on case studies, selected from the field.

### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- IR Camera handling
- Basics of heat transfer
- The building envelope
- Important physical parameters
- Major anomalies
- Thermal patterns
- Application guidelines
- Data analysis and reports

### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement
- Building application labs

### Course information

Available languages	English, French, German, Swedish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in IR thermography and building applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person from the building sector</li> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> <li>• Students and pupils with thermography and building application related projects</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>



## ITC Short course building thermography - inclusive 10 pers. (2 days)

### P/N: ITC-EXP-2019

© 2015, FLIR Systems, Inc.

#ITC-EXP-2019; r. 23306; en-US

Course details	
Duration	2 days
Structure	Theory, camera handling, demos and practical labs alternate.
Exam	None
Course fee includes	<ul style="list-style-type: none"><li>• Tuition by qualified ITC instructor</li><li>• Training material in printed format</li><li>• Diploma of attendance</li><li>• Attendance of a group up to 10 persons</li><li>• Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li></ul>
Course organization	
ITC	The "ITC Short Course Building Thermography" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Building Thermography" is lectured by qualified ITC instructors with special experience in the field of building applications.

### Compatible with the following products

- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-2011

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2011  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course gives a general introduction to IR thermography and an overview on its specific use for the inspection of buildings. It aims at giving you clues on what you can do with your camera.

During the first day, you learn the basics of thermography and how to use your camera the best way. The second day you will start with a brief reminder of thermal transfers before you learn about the building envelope, important physical parameters and typical faults. Emphasis is put on case studies, selected from the field.

### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- IR Camera handling
- Basics of heat transfer
- The building envelope
- Important physical parameters
- Major anomalies
- Thermal patterns
- Application guidelines
- Data analysis and reports

### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement
- Building application labs

### Course information

Available languages	English, French, German, Swedish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in IR thermography and building applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person from the building sector</li> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> <li>• Students and pupils with thermography and building application related projects</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>



**P/N: ITC-EXP-2011**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2011; r. 23306; en-US

Course details	
Duration	2 days
Structure	Theory, camera handling, demos and practical labs alternate.
Exam	None
Course fee includes	<ul style="list-style-type: none"><li>• Tuition by qualified ITC instructor</li><li>• Training material in printed format</li><li>• Diploma of attendance</li><li>• Might include more, such as refreshments or lunch, depending on location and organizing entity</li></ul>
Course organization	
ITC	The "ITC Short Course Building Thermography" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Building Thermography" is lectured by qualified ITC instructors with special experience in the field of building applications.

**Compatible with the following products**

- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-2041

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2041  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course gives a general introduction to IR thermography and an overview on its specific use for inspections of electrical systems. It aims at giving you clues on what you can do with your camera.

During the first day, you learn the basics of thermography and how to use your camera the best way. The second day you will start with a brief reminder of thermal transfers before you learn about electrical systems and components, material properties, typical problems and faults. Emphasis is put on case studies, selected from the field.

### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- IR Camera handling
- Basics of heat transfer
- Electrical systems
- Important properties of material
- Most common problems
- Case studies
- Common mistakes
- Application guidelines
- Data analysis and reports

### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement
- Electrical application labs

### Course information

Available languages	English, French, German, Swedish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in IR thermography and electrical applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person working with maintenance or installation of electrical systems</li> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> <li>• Students and pupils with thermography and electrical application related projects</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>

**P/N: ITC-EXP-2041**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2041; r. 23306; en-US

Course details	
Duration	2 days
Structure	Theory, camera handling, demos and practical labs alternate.
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by qualified ITC instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Might include more, such as lunch, depending on location</li> </ul>
Course organization	
ITC	The "ITC Short Course Electrical Thermography" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Electrical Thermography" is lectured by qualified ITC instructors with special experience in the field of electrical installations.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)



---

**P/N: ITC-EXP-2041**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2041; r. 23306; en-US

- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display



## P/N: ITC-EXP-2049

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2049  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course gives a general introduction to IR thermography and an overview on its specific use for inspections of electrical systems. It aims at giving you clues on what you can do with your camera.

During the first day, you learn the basics of thermography and how to use your camera the best way. The second day you will start with a brief reminder of thermal transfers before you learn about electrical systems and components, material properties, typical problems and faults. Emphasis is put on case studies, selected from the field.

### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- IR Camera handling
- Basics of heat transfer
- Electrical systems
- Important properties of material
- Most common problems
- Case studies
- Common mistakes
- Application guidelines
- Data analysis and reports

### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement
- Electrical application labs

### Course information

Available languages	English, French, German, Swedish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in IR thermography and electrical applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person working with maintenance or installation of electrical systems</li> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> <li>• Students and pupils with thermography and electrical application related projects</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>

**P/N: ITC-EXP-2049**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2049; r. 23306; en-US

Course details	
Duration	2 days
Structure	Theory, camera handling, demos and practical labs alternate.
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by qualified ITC instructor</li> <li>• Training material in printed format</li> <li>• Diploma of attendance</li> <li>• Attendance of a group up to 10 persons</li> <li>• Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	The "ITC Short Course Electrical Thermography" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Electrical Thermography" is lectured by qualified ITC instructors with special experience in the field of electrical installations.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)



---

**P/N: ITC-EXP-2049**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2049; r. 23306; en-US

- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-2061

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2061  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

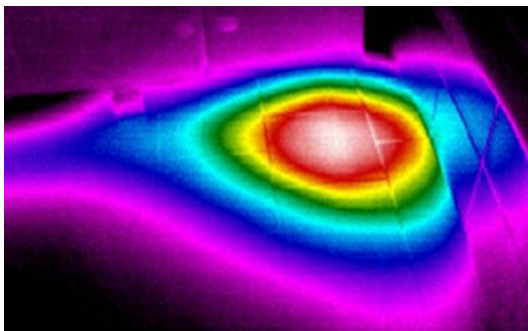
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course gives a general introduction to IR thermography and an overview on its specific use for inspections of heating and HVAC systems, and related installations. It aims at giving you clues on what you can do with your camera.

During the first day, you learn the basics of thermography, and how to use your camera the best way. The second day you will get introduced to various heating systems before you learn about typical faults and how thermography helps you to locate and analyze these. Emphasis is put on case studies, selected from the field.

### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- IR Camera handling
- Heating systems
- Pipe tracing and localization of water circuits
- Water leaks
- Moisture and humidity
- Water radiators
- Tanks, manifolds and plenums
- HVAC systems
- Industrial heat exchangers
- Photovoltaic panel inspection
- Data analysis and reports

### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement
- Application labs

### Course information

Available languages	English, French, German, Italian, Spanish, Swedish
Target group	<ul style="list-style-type: none"> <li>• Beginners and anybody interested in IR thermography, plumbing and HVAC applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Plumbers or persons working with plumbing and or/HVAC systems</li> <li>• Facility managers</li> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>

### Course details

Duration	2 days
Structure	Theory, camera handling, demos and practical labs alternate.



**P/N: ITC-EXP-2061**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2061; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"><li>• Tuition by qualified ITC instructor</li><li>• Training material in printed format</li><li>• Refreshments</li><li>• Diploma of attendance</li><li>• Might include more, such as lunch, depending on location</li></ul>
Course organization	
ITC	The "ITC Short Course HVAC and plumbing" is offered in EMEA by ITC and partners. Specific customer requests shall be forwarded to the closest ITC or ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course HVAC and plumbing" is lectured by qualified ITC instructors with special experience in the field of electrical installations.

**Compatible with the following products**

- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-2069

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2069  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

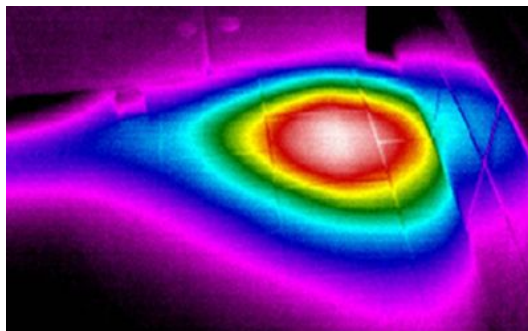
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course gives a general introduction to IR thermography and an overview on its specific use for inspections of heating and HVAC systems, and related installations. It aims at giving you clues on what you can do with your camera.

During the first day, you learn the basics of thermography, and how to use your camera the best way. The second day you will get introduced to various heating systems before you learn about typical faults and how thermography helps you to locate and analyze these. Emphasis is put on case studies, selected from the field.

### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- IR Camera handling
- Heating systems
- Pipe tracing and localization of water circuits
- Water leaks
- Moisture and humidity
- Water radiators
- Tanks, manifolds and plenums
- HVAC systems
- Industrial heat exchangers
- Photovoltaic panel inspection
- Data analysis and reports

### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement
- Application labs

### Course information

Available languages	English, French, German, Italian, Spanish, Swedish
Target group	<ul style="list-style-type: none"> <li>• Beginners and anybody interested in IR thermography, plumbing and HVAC applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Plumbers or persons working with plumbing and or/HVAC systems</li> <li>• Facility managers</li> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>

### Course details

Duration	2 days
Structure	Theory, camera handling, demos and practical labs alternate.
Exam	None



**P/N: ITC-EXP-2069**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2069; r. 23306; en-US

Course details	
Course fee includes	<ul style="list-style-type: none"><li>• Tuition by qualified ITC instructor</li><li>• Training material in printed format</li><li>• Diploma of attendance</li><li>• Attendance of a group up to 10 persons</li><li>• Might include more, such as refreshments or lunch, depending on location.</li></ul>
Note	Course fee does not include cost for instructor's travelling or lodging.

Course organization	
ITC	The "ITC Short Course HVAC and plumbing" is offered in EMEA by ITC and partners. Specific customer requests shall be forwarded to the closest ITC or ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course HVAC and plumbing" is lectured by qualified ITC instructors with special experience in the field of electrical installations.

**Compatible with the following products**

- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-1019

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1019  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This is a full one day course for beginners and everybody interested in IR thermography and its applications. The course covers the basics of IR theory and includes demos, camera hand-on and practical exercises using relevant key labs.

#### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- Introduction to electrical and building inspections
- IR Camera handling
- Data analysis and reports

#### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement

### Course information

Available languages	English, French, German, Swedish, Danish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in IR thermography and its applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> <li>• A person who starts to use IR cameras at work</li> <li>• Students and pupils with thermography related projects</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>

### Course details

Duration	1 day
Structure	Theory, camera handling and demos in the morning. Practical labs in the afternoon.



**P/N: ITC-EXP-1019**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1019; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by qualified ITC instructor</li> <li>• Training material in printed format</li> <li>• Diploma of attendance</li> <li>• Attendance of a group up to 10 persons</li> <li>• Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	The "ITC Short Course Introduction to Thermography" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Introduction to Thermography" is lectured by qualified ITC instructors with long time experience in the various fields of thermography.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)

**P/N: ITC-EXP-1019**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1019; r. 23306; en-US

- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC



---

**P/N: ITC-EXP-1019**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1019; r. 23306; en-US

- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-1011

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1011  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This is a full one day course for beginners and everybody interested in IR thermography and its applications. The course covers the basics of IR theory and includes demos, camera hand-on and practical exercises using relevant key labs.

#### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- Introduction to electrical and building inspections
- IR Camera handling
- Data analysis and reports

#### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement

### Course information

Available languages	English, French, German, Swedish, Danish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in IR thermography and its applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> <li>• A person who starts to use IR cameras at work</li> <li>• Students and pupils with thermography related projects</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>

### Course details

Duration	1 day
Structure	Theory, camera handling and demos in the morning. Practical labs in the afternoon.

**P/N: ITC-EXP-1011**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1011; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>
Course organization	
ITC	The "ITC Short Course Introduction to Thermography" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Introduction to Thermography" is lectured by qualified ITC instructors with long time experience in the various fields of thermography.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)

**P/N: ITC-EXP-1011**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1011; r. 23306; en-US

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL

---

**P/N: ITC-EXP-1011**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1011; r. 23306; en-US

- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-SOW-0001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-SOW-0001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

These courses are for users of FLIR software like FLIR Reporter Professional or FLIR ResearchIR. Please observe that content and labs depend on the software used.

#### Content

- System requirements
- Configuration
- Analyzing functions
- Templates
- Reporting functions
- Data exchange

#### Labs

- System set up
- Data import
- Data analysis
- Creating templates
- Creating reports
- Exporting data
- Triggering

### Course information

Available languages	English, French, German, other languages upon request
Target group	<ul style="list-style-type: none"> <li>• Persons interested in, or users, of the specific software.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Consultants interested in reporting</li> <li>• Building inspectors with reporting needs</li> <li>• R&amp;D staff interested in advanced data analysis</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Laptop with installed software full version or 30 day demo (download on <a href="http://www.flir.com">www.flir.com</a>)</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic knowledge about thermography and related parameters.</li> </ul>

### Course details

Duration	Depends on software.
Structure	Short system introduction, then demos and practical exercises.



**P/N: ITC-SOW-0001**

© 2015, FLIR Systems, Inc.  
#ITC-SOW-0001; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>
Course organization	
ITC	Software courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Software courses are lectured by ITC qualified instructors experienced in usage of the software being subject of the class.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)

**P/N: ITC-SOW-0001**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0001; r. 23306; en-US

- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°

**P/N: ITC-SOW-0001**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0001; r. 23306; en-US

- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-SOW-0009

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-SOW-0009  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
These courses are for users of FLIR software like FLIR Reporter Professional or FLIR ResearchIR. Please observe that content and labs depend on the software used.	
Content	
<ul style="list-style-type: none"> <li>• System requirements</li> <li>• Configuration</li> <li>• Analyzing functions</li> <li>• Templates</li> <li>• Reporting functions</li> <li>• Data exchange</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>• System set up</li> <li>• Data import</li> <li>• Data analysis</li> <li>• Creating templates</li> <li>• Creating reports</li> <li>• Exporting data</li> <li>• Triggering</li> </ul>	
Course information	
Available languages	English, French, German, other languages upon request
Target group	<ul style="list-style-type: none"> <li>• Persons interested in, or users, of the specific software.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Consultants interested in reporting</li> <li>• Building inspectors with reporting needs</li> <li>• R&amp;D staff interested in advanced data analysis</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Laptop with installed software full version or 30 day demo (download on <a href="http://www.flir.com">www.flir.com</a>)</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic knowledge about thermography and related parameters.</li> </ul>
Course details	
Duration	Depends on software.
Structure	Short system introduction, then demos and practical exercises.

**P/N: ITC-SOW-0009**

© 2015, FLIR Systems, Inc.  
#ITC-SOW-0009; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by qualified ITC instructor</li> <li>• Training material</li> <li>• Diploma of attendance</li> <li>• Attendance of a group up to 10 persons</li> <li>• Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	Software courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Software courses are lectured by ITC qualified instructors experienced in usage of the software being subject of the class.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm

**P/N: ITC-SOW-0009**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0009; r. 23306; en-US

- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°

**P/N: ITC-SOW-0009**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0009; r. 23306; en-US

- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-1001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	1 day
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>



**P/N: ITC-EXP-1001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1001; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-1001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1001; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-1001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1001; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-1009

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1009  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	1 day
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-1009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1009; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-1009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1009; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-1009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1009; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-2001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	2 days
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>



**P/N: ITC-EXP-2001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2001; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-2001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2001; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-2001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2001; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-2009

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2009  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	2 days
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-2009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2009; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-2009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2009; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-2009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2009; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-3001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-3001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	3 days
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>



**P/N: ITC-EXP-3001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3001; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-3001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3001; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-3001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3001; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-3009

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-3009  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	3 days
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-3009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3009; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-3009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3009; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-3009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3009; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-SOW-1001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-SOW-1001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

ITC Training FLIR Software - attendance 1 pers. (1 day)

### Course details

Duration	1 day
----------	-------

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)





---

**P/N: ITC-SOW-1001**

© 2015, FLIR Systems, Inc.

#ITC-SOW-1001; r. 23306; en-US

- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-SOW-2001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-SOW-2001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

ITC Training FLIR Software - attendance 1 pers. (2 days)

### Course details

Duration	2 days
----------	--------

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)



---

**P/N: ITC-SOW-2001**

© 2015, FLIR Systems, Inc.

#ITC-SOW-2001; r. 23306; en-US

- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TFT-0100

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TFT-0100  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

ITC travel time for instructor

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TFT-0100**

© 2015, FLIR Systems, Inc.  
#ITC-TFT-0100; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TFT-0100**

© 2015, FLIR Systems, Inc.  
#ITC-TFT-0100; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-FEE-0130

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-FEE-0130  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
EN - Repeat Certification EN473 IT Category 1	
Course information	
Available languages	DACH only
Course details	
Duration	1 day

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)



---

**P/N: ITC-FEE-0130**

© 2015, FLIR Systems, Inc.

#ITC-FEE-0130; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5



## P/N: ITC-TOL-1003

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1003  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (Center and South Africa)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1003**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1003; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TOL-1003**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1003; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TOL-1001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (Europe, Balcans, Turkey, Cyprus)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1001**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1001; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TOL-1001**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1001; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TOL-1005

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1005  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (other)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1005**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1005; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC



**P/N: ITC-TOL-1005**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1005; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TOL-1002

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1002  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (Russia/GUS, Middle East, North Africa)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1002**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1002; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TOL-1002**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1002; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TOL-1004

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1004  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (various)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1004**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1004; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TOL-1004**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1004; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

# Accessories for FLIR GF3xx series

---



## P/N: T197387

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197387  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
The standard 24° lens is suitable for the majority of applications.	
Licensing and classification	
License information	Interchangeable lens version of the FLIR GF3XX series requires US Department of State License and will be subject to limitations on resale, except inside US. Allow a minimum of 90 days after application submittal for approval.
Imaging and optical data	
Field of view (FOV)	24° × 18°
Minimum focus distance	0.3 m (1.0 ft.)
Focal length	23 mm (0.89 in.)
Lens identification	Automatic
F-number	1.5
Lens note	For spectral range 3.2–3.4 and 3.8–4.05 μm
Physical data	
Weight	0.30 kg (0.67 lb.)
Size (L × D)	57 × 80 mm (2.24 × 3.15 in.)
Shipping information	
List of contents	<ul style="list-style-type: none"> <li>• Lens</li> <li>• Lens case</li> </ul>
EAN-13	7332558009017
UPC-12	845188009564
Country of origin	Sweden

### Compatible with the following products

- 44401-0201; FLIR GF300 14.5°
- 44401-0202; FLIR GF300 24°
- 44601-0101; FLIR GF309 14.5°
- 44601-0102; FLIR GF309 24°
- 44401-0101; FLIR GF320 14.5°
- 44401-0102; FLIR GF320 24°

## P/N: T197388

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197388  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
The 6° lens is a popular lens accessory and provides 4× magnification compared to the standard lens. Ideal for small or distant targets.	
Licensing and classification	
License information	Interchangeable lens version of the FLIR GF3XX series requires US Department of State License and will be subject to limitations on resale, except inside US. Allow a minimum of 90 days after application submittal for approval.
Imaging and optical data	
Field of view (FOV)	6° × 4.5°
Minimum focus distance	2 m (6.6 ft.)
Focal length	92 mm (3.61 in.)
Lens identification	Automatic
F-number	1.5
Lens note	For spectral range 3.2–3.4 and 3.8–4.05 μm Does not fit together with the heat shield
Physical data	
Weight	0.70 kg (1.54 lb.)
Size (L × D)	116 × 99 mm (4.57 × 3.90 in.)
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Lens</li> <li>• Lens case</li> </ul>
Packaging, weight	1.0 kg (2.2 lb.)
Packaging, size	172 × 131 × 133 mm (6.8 × 5.2 × 5.2 in.)
EAN-13	7332558005743
UPC-12	845188005955
Country of origin	Sweden

### Compatible with the following products

- 44401-0201; FLIR GF300 14.5°
- 44401-0202; FLIR GF300 24°
- 44601-0101; FLIR GF309 14.5°
- 44601-0102; FLIR GF309 24°
- 44401-0101; FLIR GF320 14.5°
- 44401-0102; FLIR GF320 24°
- 59801-0101; FLIR GF346 14.5°
- 59801-0102; FLIR GF346 24°

## P/N: T197385

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197385  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The 14.5° lens is a popular lens accessory and provides 1.7× magnification compared to the standard lens. Ideal for small or distant targets.

### Licensing and classification

#### License information

Interchangeable lens version of the FLIR GF3XX series requires US Department of State License and will be subject to limitations on resale, except inside US. Allow a minimum of 90 days after application submittal for approval.

### Imaging and optical data

Field of view (FOV)	14.5° × 10.9°
Minimum focus distance	0.5 m (1.64 ft.)
Focal length	38 mm (1.50 in.)
Lens identification	Automatic
F-number	1.5
Lens note	For spectral range 3.2–3.4 and 3.8–4.05 μm

### Physical data

Weight	0.28 kg (0.62 lb.)
Size (L × D)	54 × 80 mm (2.13 × 3.15 in.)

### Shipping information

List of contents	<ul style="list-style-type: none"> <li>• Lens</li> <li>• Lens case</li> </ul>
EAN-13	7332558005781
UPC-12	845188005993
Country of origin	Sweden

### Compatible with the following products

- 44401-0201; FLIR GF300 14.5°
- 44401-0202; FLIR GF300 24°
- 44601-0101; FLIR GF309 14.5°
- 44601-0102; FLIR GF309 24°
- 44401-0101; FLIR GF320 14.5°
- 44401-0102; FLIR GF320 24°

## P/N: T197386

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197386  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
The standard 24° lens is suitable for the majority of applications.	
Licensing and classification	
License information	Interchangeable lens version of the FLIR GF3XX series requires US Department of State License and will be subject to limitations on resale, except inside US. Allow a minimum of 90 days after application submittal for approval.
Imaging and optical data	
Field of view (FOV)	24° × 18°
Minimum focus distance	0.3 m (1.0 ft.)
Focal length	23 mm (0.89 in.)
Lens identification	Automatic
F-number	1.5
Lens note	For spectral range 10–11 μm
Physical data	
Weight	0.30 kg (0.67 lb.)
Size (L × D)	57 × 80 mm (2.24 × 3.15 in.)
Shipping information	
List of contents	<ul style="list-style-type: none"> <li>• Lens</li> <li>• Lens case</li> </ul>
EAN-13	7332558005842
UPC-12	845188006051
Country of origin	Sweden

### Compatible with the following products

- 59601-0101; FLIR GF304 14.5°
- 59601-0102; FLIR GF304 24°
- 44201-0101; FLIR GF306 14.5°
- 44201-0102; FLIR GF306 24°

## P/N: T197384

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197384  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
The 14.5° lens is a popular lens accessory and provides 1.7× magnification compared to the standard lens. Ideal for small or distant targets.	
Licensing and classification	
License information	Interchangeable lens version of the FLIR GF3XX series requires US Department of State License and will be subject to limitations on resale, except inside US. Allow a minimum of 90 days after application submittal for approval.
Imaging and optical data	
Field of view (FOV)	14.5° × 10.8°
Minimum focus distance	0.5 m (1.64 ft.)
Focal length	38 mm (1.49 in.)
Lens identification	Automatic
F-number	1.5
Lens note	For spectral range 10–11 μm
Physical data	
Size (L × D)	54 × 80 mm (2.13 × 3.15 in.)
Shipping information	
List of contents	<ul style="list-style-type: none"> <li>• Lens</li> <li>• Lens case</li> </ul>
EAN-13	7332558005767
UPC-12	845188005979
Country of origin	Sweden

### Compatible with the following products

- 59601-0101; FLIR GF304 14.5°
- 59601-0102; FLIR GF304 24°
- 44201-0101; FLIR GF306 14.5°
- 44201-0102; FLIR GF306 24°

## P/N: T198267

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198267  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
The standard 24° lens is suitable for the majority of applications.	
Licensing and classification	
License information	Interchangeable lens version of the FLIR GF3XX series requires US Department of State License and will be subject to limitations on resale, except inside US. Allow a minimum of 90 days after application submittal for approval.
Imaging and optical data	
Field of view (FOV)	24° × 18°
Minimum focus distance	0.3 m (1.0 ft.)
Focal length	23 mm (0.89 in.)
Lens identification	Automatic
F-number	1.5
Lens note	For spectral range 3–5 µm
Physical data	
Weight	0.30 kg (0.67 lb.)
Size (L × D)	57 × 80 mm (2.24 × 3.15 in.)
Shipping information	
List of contents	<ul style="list-style-type: none"> <li>• Lens</li> <li>• Lens cap</li> <li>• Lens case</li> </ul>
EAN-13	7332558009031
UPC-12	845188009571
Country of origin	Sweden

### Compatible with the following products

- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59801-0102; FLIR GF346 24°

## P/N: T198298

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198298  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The 14.5° lens is a popular lens accessory and provides 1.7× magnification compared to the standard lens. Ideal for small or distant targets.

### Licensing and classification

License information	Interchangeable lens version of the FLIR GF3XX series requires US Department of State License and will be subject to limitations on resale, except inside US. Allow a minimum of 90 days after application submittal for approval.
---------------------	--

### Imaging and optical data

Field of view (FOV)	14.5° × 10.8°
Minimum focus distance	0.5 m (1.64 ft.)
Focal length	38 mm (1.49 in.)
Lens identification	Automatic
F-number	1.5
Lens note	For spectral range 3–5 μm

### Physical data

Weight	0.28 kg (0.62 lb.)
Size (L × D)	54 × 80 mm (2.13 × 3.15 in.)

### Shipping information

List of contents	<ul style="list-style-type: none"> <li>• Lens</li> <li>• Lens case</li> </ul>
EAN-13	7332558006214
UPC-12	845188006563
Country of origin	Sweden

### Compatible with the following products

- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59801-0102; FLIR GF346 24°

## P/N: T198361

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198361  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This extender is intended for both fixed and non-fixed lens versions of the GF309 camera. It extends the existing 14.5° lens to achieve a better viewing angle when measuring the temperatures of furnace tubes through viewports.	
It also features a heat shield to deflect the heat from the furnace. To achieve a high measurement accuracy, the external optics transmission will need to be entered into the camera firmware.	
Note:	
<ul style="list-style-type: none"> <li>Only firmware versions later than 2.x.x support the use of this lens extender.</li> <li>This product only applies to the 14.5° lens.</li> <li>The 14.5° lens is not included.</li> </ul>	
Imaging and optical data	
Field of view (FOV)	14.5° × 10.9°
Minimum focus distance	1.2 m (3.94 ft.)
Focal length	38 mm (1.50 in.)
F-number	1.5
Lens note	For spectral range 3.8–4.05 µm
Physical data	
Weight	0.51 kg (1.12 lb.) incl. lens caps, excl. camera-side bayonet mount
Size (L × D)	164.3 × 84 mm (6.5 × 3.3 in.), excl. lens caps
Shipping information	
List of contents	<ul style="list-style-type: none"> <li>Furnace lens extender with bayonet mount</li> <li>Bayonet mount (camera-side)</li> <li>Heat shield</li> <li>Heat shield support</li> <li>Instruction</li> <li>Lens cap, 2 ea.</li> <li>Transport case</li> </ul>
EAN-13	7332558003626
UPC-12	845188003845
Country of origin	Sweden

### Compatible with the following products

- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens



## P/N: T198360

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198360  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This extender is intended for both fixed and non-fixed lens versions of the GF309 camera. It extends the existing 24° lens to achieve a better viewing angle when measuring the temperatures of furnace tubes through viewports.

It also features a heat shield to deflect the heat from the furnace. To achieve a high measurement accuracy, the external optics transmission will need to be entered into the camera firmware.

#### Note:

- Only firmware versions later than 2.x.x support the use of this lens extender.
- This product only applies to the 24° lens.
- The 24° lens is not included.

### Imaging and optical data

Field of view (FOV)	24° × 18°
Minimum focus distance	0.6 m (1.97 ft.)
Focal length	23 mm (0.91 in.)
F-number	1.5
Lens note	For spectral range 3.8–4.05 µm

### Physical data

Weight	0.64 kg (1.41 lb.) incl. lens caps, excl. camera-side bayonet mount
Size (L × D)	132 × 84 mm (5.2 × 3.3 in.), excl. lens caps

### Shipping information

List of contents	<ul style="list-style-type: none"> <li>• Furnace lens extender with bayonet mount</li> <li>• Bayonet mount (camera-side)</li> <li>• Heat shield</li> <li>• Heat shield support</li> <li>• Instruction</li> <li>• Lens cap, 2 ea.</li> <li>• Transport case</li> </ul>
EAN-13	7332558003633
UPC-12	845188003852
Country of origin	Sweden

### Compatible with the following products

- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens

## P/N: T197692

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197692  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Stand-alone 2-bay battery charger, including power supply with multi plugs.	
Note: This product replaces T197563 and 1196210EU/UK/US	
Power system	
AC operation	100–240 VAC, 50/60 Hz, 12 VDC out
Power	3000 mA at 12 VDC
Physical data	
Battery charger size (L × W × H)	158 × 122 × 25 mm (6.2 × 4.8 × 1.0 in.)
Cable length	1.98 m (6.5 ft.)
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Stand-alone 2-bay battery charger</li> <li>• Power supply including cable</li> <li>• EU plug</li> <li>• UK plug</li> <li>• US plug</li> <li>• AU plug</li> </ul>
Packaging, weight	0.60 kg (1.3 lb.)
Packaging, size	243 × 165 × 82 mm (9.6 × 6.5 × 3.2 in.)
EAN-13	7332558003787
UPC-12	845188004002
Country of origin	Sweden

### Compatible with the following products

- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens



Battery charger, incl. power supply with multi plugs

---

**P/N: T197692**

© 2015, FLIR Systems, Inc.  
#T197692; r. 23306; en-US

- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

## P/N: T910814

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T910814  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
FLIR P/B/SC6xx and FLIR GF3xx series:	
Power supply, including multiple plugs, to charge the battery when it is inside or outside of the camera.	
FLIR T6xx and FLIR Exx series:	
Power supply, including multiple plugs, to charge the battery when it is inside the camera or in the battery charger.	
Power system	
AC operation	100–240 VAC, 50/60 Hz, 12 VDC out
Power	3000 mA at 12 VDC
Physical data	
Cable length	1.98 m (6.5 ft.)
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Power supply including cable</li> <li>EU plug</li> <li>UK plug</li> <li>US plug</li> <li>AU plug</li> </ul>
Packaging, weight	0.324 kg (9.7 lb.)
Packaging, size	152 × 78 × 73 mm (6.0 × 3.1 × 2.9 in.)
EAN-13	7332558003794 4743254001763 (Estonia plant)
UPC-12	845188002145
Country of origin	Sweden

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)

**P/N: T910814**

© 2015, FLIR Systems, Inc.  
#T910814; r. 23306; en-US

- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)



Power supply, incl. multi plugs

---

**P/N: T910814**

© 2015, FLIR Systems, Inc.  
#T910814; r. 23306; en-US

- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: T198511

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198511  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
High capacity battery for the IR camera.	
Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	7.2 V
Battery capacity	4.4 Ah at +20°C (+68°F)
Battery note	Approximate lithium content: 3.0 g
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 95% capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
Environmental data	
Battery storage temperature range	-40°C to +70°C (-40°F to +158°F)
Physical data	
Battery weight	0.24 kg (0.52 lb.)
Size (L x W x H)	141 x 47 x 28 mm (5.5 x 1.8 x 1.1 in.)
Shipping information	
Packaging, type	Cardboard box
Packaging, weight	0.324 kg (0.7 lb.)
Packaging, size	183 x 136 x 63 mm (7.2 x 5.4 x 2.5 in.)
EAN-13	7332558004364
UPC-12	845188004347
Country of origin	Sweden

### Compatible with the following products

- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens



---

**P/N: T198511**

© 2015, FLIR Systems, Inc.  
#T198511; r. 23306; en-US

- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens



## P/N: T911230ACC

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T911230ACC  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.

General description	
SD Card for data storage (e.g. images)	
Data communication interfaces	
Memory card, size	At least 4 GB
Physical data	
Weight	2 g (0.07 oz.)
Size (L × W × H)	32.0 × 24.0 × 2.1 mm (1.26 × 0.94 × 0.08 in.)
Shipping information	
Packaging, type	Cardboard box
List of contents	• SD Card
Packaging, weight	65 g (2.3 oz.)
Packaging, size	170 × 64 × 75 mm (6.69 × 2.52 × 2.95 in.)
EAN-13	7332558006221 4743254001503 (Estonia plant)
UPC-12	845188006570
Country of origin	Sweden

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)

**P/N: T911230ACC**

© 2015, FLIR Systems, Inc.  
#T911230ACC; r. 23306; en-US

- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

**P/N: 1910423**

**Copyright**

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

**Document identity**

Publ. No.: 1910423  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

**Corporate Headquarters**

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

**Website**

<http://www.flir.com>

**Customer support**

<http://support.flir.com>

**Disclaimer**

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This cable is used to connect the infrared camera with a computer, using the USB protocol.	
Physical data	
Weight	60 g (2.1 oz.)
Cable length	1.8 m (5.9 ft.)
Connector	Standard USB-A to USB Mini-B
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558003428
UPC-12	845188002176
Country of origin	Sweden

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)

**P/N: 1910423**

© 2015, FLIR Systems, Inc.  
#1910423; r. 23306; en-US

- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40



---

**P/N: 1910423**

© 2015, FLIR Systems, Inc.  
#1910423; r. 23306; en-US

- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72201-0106; FLIR K45
- 72201-0206; FLIR K55

## P/N: T198509

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198509  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This cable is used to power the infrared camera from the cigarette lighter socket in a car.	
Note: This is the same product as p/n 1196497.	
Physical data	
Cable length	1.2 m (3.9 ft).
Shipping information	
Packaging, type	Cardboard box
Packaging, weight	0.125 kg (0.28 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558004340 4743254001435 (Estonia plant)
UPC-12	845188004361
Country of origin	Sweden

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)

**P/N: T198509**

© 2015, FLIR Systems, Inc.  
#T198509; r. 23306; en-US

- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72201-0106; FLIR K45
- 72201-0206; FLIR K55

## P/N: T910815ACC

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T910815ACC  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This cable is used to connect the infrared camera with an external display.	
Physical data	
Weight	195 g (6.9 oz.)
Cable length	1.5 m (4.9 ft.)
Connector	HDMI to HDMI
Shipping information	
Packaging, type	Cardboard box
Packaging, weight	251 g (8.9 oz.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558006313
UPC-12	845188006662
Country of origin	Sweden

### Compatible with the following products

- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens



## P/N: T910816ACC

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T910816ACC  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This cable is used to connect the infrared camera with an external display.	
Physical data	
Weight	213 g (7.5 oz.)
Cable length	1.5 m (4.9 ft.)
Connector	HDMI to DVI
Shipping information	
Packaging, type	Cardboard box
Packaging, weight	277 g (9.8 oz.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558006276
UPC-12	845188006624
Country of origin	Sweden

### Compatible with the following products

- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

## P/N: T197555

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197555  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Hard transport case for FLIR GF300-Series	
Physical data	
Weight	3.5 kg (7.7 lb.)
Size (L x W x H)	488 x 386 x 185 mm (19.2 x 15.2 x 7.3 in.)
Color	Black
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558006443
UPC-12	845188006792
Country of origin	Sweden

### Compatible with the following products

- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

## P/N: T951387

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T951387  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Wi-Fi USB adapter for wireless connection between the infrared camera and external equipment.	
NOTE: Only for use in markets accepting CE and FCC regulations for wireless equipment.	
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Wi-Fi USB micro adapter</li> </ul>
Packaging, weight	0.062 kg (0.14 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005859
UPC-12	845188006068
Country of origin	Sweden

### Compatible with the following products

- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

## P/N: T197482

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197482  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Heat shield for the FLIR GF309.	
Physical data	
Weight	0.50 kg (1.10 lb.)
Size (L x W x H)	195 x 243 x 195 mm (7.7 x 9.6 x 7.7 in.)
Shipping information	
List of contents	<ul style="list-style-type: none"><li>Heat shield</li><li>Mounting support</li><li>Transport case</li></ul>
EAN-13	7332558009772
UPC-12	845188010317
Country of origin	Sweden

### Compatible with the following products

- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens

## P/N: T198586

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198586  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

FLIR Reporter Professional is a powerful software for creating compelling and professional, fully customized, easy-to-interpret maintenance reports.

Professional Report Wizard guides you step-by-step in combining all IR inspection data - infrared and visual images, temperature measurements, and text notes – into a professional, easy-to-interpret maintenance report.

### Key features:

- Flexible report page design and layout for customized reports
- Use quick insert function to easily create custom report pages
- Fully integrated with standard Microsoft Word
- Generates reports in standard MS Office format and PDF-format
- Powerful temperature analysis
- Triple Fusion Picture-in-Picture (movable, sizable, scalable)
- Rapid report manager supporting automatic report generation by drag-and-drop
- Support for MSX (Multi-Spectral Dynamic Imaging) images
- Support for sketch images in both IR and visual with on/off toggling
- Support for same FOV ("Field of View Match")
- Grid settings
- Trending functionality
- Automatic link to Google™ Maps for images with GPS coordinates
- Automatic summary table for the report
- Fine tune images and make full temperature analysis directly in Microsoft Word
- Spell check
- Create your own formulas including measurement values from images
- Play radiometric sequences directly in the report
- Search functionality to quickly finding images for your report
- Panorama tool for combining several images to a larger image
- Support for GF series IR images
- Auto Update function
- Office 2003 (32-bit), Office 2007 (32-bit) and Office 2010 (32-bit)
- Windows 7 (32 and 64-bit), Windows Vista (32 and 64-bit)
- Support for METERLiNK™ data
- \*.docx compatibility

### Download

Download your copy of FLIR Reporter Professional here:

<http://support.flir.com/reporter>

**P/N: T198586**

© 2015, FLIR Systems, Inc.  
#T198586; r. 23306; en-US

Release notes	
Version	9.2
New features	<ul style="list-style-type: none"> <li>— News in 9.2: —</li> <li>Option to hide Zoom Viewer</li> <li>Option to extract Visual image from MSI/Fusion image.</li> <li>Support for the new FLIR Ex and Exx series cameras.</li> <li>Support for multispectral images.</li> <li>Support for auto-oriented images.</li> <li>Various bug fixes.</li> </ul>
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>FLIR Reporter Professional scratchcard</li> </ul>
Packaging, weight	0.135 kg (0.3 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005286 4743254001893 (Estonia plant)
UPC-12	845188005498
Country of origin	Sweden
System requirements	
Operating system	<ul style="list-style-type: none"> <li>Windows XP, 32-bit</li> <li>Windows Vista, 32-bit</li> <li>Windows Vista, 64-bit</li> <li>Windows 7, 32-bit</li> <li>Windows 7, 64-bit</li> </ul>
Software requirements	<ul style="list-style-type: none"> <li>Office 2007 (32-bit)</li> <li>Office 2010 (32-bit)</li> </ul>

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)

**P/N: T198586**

© 2015, FLIR Systems, Inc.  
#T198586; r. 23306; en-US

- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: T198586

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198586  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description
FLIR Reporter Professional is a powerful software for creating compelling and professional, fully customized, easy-to-interpret maintenance reports.
Professional Report Wizard guides you step-by-step in combining all IR inspection data - infrared and visual images, temperature measurements, and text notes – into a professional, easy-to-interpret maintenance report.
Key features:
<ul style="list-style-type: none"> <li>• Flexible report page design and layout for customized reports</li> <li>• Use quick insert function to easily create custom report pages</li> <li>• Fully integrated with standard Microsoft Word</li> <li>• Generates reports in standard MS Office format and PDF-format</li> <li>• Powerful temperature analysis</li> <li>• Triple Fusion Picture-in-Picture (movable, sizable, scalable)</li> <li>• Rapid report manager supporting automatic report generation by drag-and-drop</li> <li>• Support for MSX (Multi-Spectral Dynamic Imaging) images</li> <li>• Support for sketch images in both IR and visual with on/off toggling</li> <li>• Support for same FOV ("Field of View Match")</li> <li>• Grid settings</li> <li>• Trending functionality</li> <li>• Automatic link to Google™ Maps for images with GPS coordinates</li> <li>• Automatic summary table for the report</li> <li>• Fine tune images and make full temperature analysis directly in Microsoft Word</li> <li>• Spell check</li> <li>• Create your own formulas including measurement values from images</li> <li>• Play radiometric sequences directly in the report</li> <li>• Search functionality to quickly finding images for your report</li> <li>• Panorama tool for combining several images to a larger image</li> <li>• Support for GF series IR images</li> <li>• Auto Update function</li> <li>• Office 2003 (32-bit), Office 2007 (32-bit) and Office 2010 (32-bit)</li> <li>• Windows 7 (32 and 64-bit), Windows Vista (32 and 64-bit)</li> <li>• Support for METERLiNK™ data</li> <li>• *.docx compatibility</li> </ul>
Download
Download your copy of FLIR Reporter Professional here:
<a href="http://support.flir.com/reporter">http://support.flir.com/reporter</a>



**P/N: T198586**

© 2015, FLIR Systems, Inc.  
#T198586; r. 23306; en-US

Release notes	
Version	9.2
New features	<ul style="list-style-type: none"> <li>— News in 9.2: —</li> <li>Option to hide Zoom Viewer</li> <li>Option to extract Visual image from MSI/Fusion image.</li> <li>Support for the new FLIR Ex and Exx series cameras.</li> <li>Support for multispectral images.</li> <li>Support for auto-oriented images.</li> <li>Various bug fixes.</li> </ul>
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>FLIR Reporter Professional scratchcard</li> </ul>
Packaging, weight	0.135 kg (0.3 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005286 4743254001893 (Estonia plant)
UPC-12	845188005498
Country of origin	Sweden
System requirements	
Operating system	<ul style="list-style-type: none"> <li>Windows XP, 32-bit</li> <li>Windows Vista, 32-bit</li> <li>Windows Vista, 64-bit</li> <li>Windows 7, 32-bit</li> <li>Windows 7, 64-bit</li> </ul>
Software requirements	<ul style="list-style-type: none"> <li>Office 2007 (32-bit)</li> <li>Office 2010 (32-bit)</li> </ul>

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)

**P/N: T198586**

© 2015, FLIR Systems, Inc.  
#T198586; r. 23306; en-US

- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: T198584

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198584  
Commit: 25122  
Language: en-US  
Modified: 2015-04-29 09:51  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

FLIR Tools is a software suite specifically designed to provide an easy way to update your camera and create inspection reports.

#### Key features:

- Report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR).
- Manual IR/Visual Image Grouping
- Import images from your camera to your computer.
- Apply filters when searching for images.
- Search all text in images and text annotations.
- Store the five latest search criteria's.
- Lay out, move, and resize measurement tools on any infrared image.
- Create PDF imagesheets of any images of your choice.
- Add headers, footers, and logos to imagesheets.
- Create PDF reports for images of your choice.
- Add headers, footers, and logos to reports.
- Report editor (report page preview and snap to grid).
- Sort function (by date, groups sorted by path, and groups sorted by date).
- Browse and purchase infrared cameras, software, and accessories in the webshop.
- Software localized to 21 languages.
- Support for MSX (Multi-Spectral Dynamic Imaging ) Images
- Support for Sketch Images on both IR and Visual with toggling ON/OFF feature.
- Support for Same FOV ( Field of View Match )
- Display of Compass Information in Edit and in Report.
- Display of GPS Information in Edit and in Report.
- Microsoft Windows 7 (32- and 64-bit) and Windows 8 (32- and 64-bit)
- Camera update (applies to FLIR Ex, Kxx, Exx and T6xx series only).

### Download

This software is a freeware. To download, click the following link:

<http://support.flir.com/tools>

### Release notes

Version	5.2
New features in version 5.2	<ul style="list-style-type: none"> <li>• Support for auto-adjusting a region.</li> <li>• Support for zoom.</li> <li>• Various bug fixes.</li> </ul>
New features in version 5.1	<ul style="list-style-type: none"> <li>• Improved import performance.</li> <li>• Added support for video recording settings for FLIR Kxx series.</li> <li>• Added support for importing video files from FLIR Kxx series.</li> <li>• Added support for FLIR C2 camera.</li> <li>• Various bug fixes.</li> </ul>

**P/N: T198584**

© 2015, FLIR Systems, Inc.  
#T198584; r. 25122; en-US

Release notes	
New features in version 5.0	<ul style="list-style-type: none"> <li>Local object parameters for measurement tools.</li> <li>Save a report in-process with the ability to edit at a later time.</li> <li>Pull-down menus for text annotations.</li> <li>Variable playback speed for recordings.</li> <li>Show or hide min./max./avg. temperature, and hot/cold markers, for areas and lines.</li> <li>Smoother display for low-resolution images.</li> <li>UltraMax image enhancement.</li> <li>Dropping support for Windows XP.</li> <li>Various bug fixes.</li> </ul>
New features in version 4.1	<ul style="list-style-type: none"> <li>Previous/next in Edit mode.</li> <li>Clone in the Library.</li> <li>Extract visual photo from a multispectral image.</li> <li>Import *.mp4, *.seq, and *.csq files from the camera.</li> <li>Playback/edit *.seq and *.csq files.</li> <li>Scale enhancement for the FLIR GF3xx series.</li> <li>Auto resize of thumbnails during importing for the FLIR T6xx series.</li> <li>Grouping/ungrouping now added.</li> <li>Various bug fixes.</li> </ul>
New features in version 4.0	<ul style="list-style-type: none"> <li>Support for the new FLIR Ex and Exx series cameras.</li> <li>Interactive quick start guide when connecting a FLIR camera.</li> <li>Improved library view.</li> <li>Support for multispectral images.</li> <li>Support for auto-oriented images.</li> <li>Various bug fixes.</li> </ul>
New features in version 3.1	<ul style="list-style-type: none"> <li>Support for FLIR K series cameras.</li> <li>Interactive quick start guide when connecting a FLIR K series camera.</li> <li>Live image streaming from FLIR K series cameras.</li> <li>PC-side configuration of FLIR K series cameras.</li> <li>New report templates for DC images only added.</li> <li>Various bug fixes.</li> </ul>
New features in version 3.0	<ul style="list-style-type: none"> <li>Add folder to library.</li> <li>Support for isotherms and color alarms</li> <li>Image description for both IR and DC.</li> <li>Export functionality (*.avi, *.csv).</li> <li>Microsoft Windows 8 (32- and 64-bit)</li> <li>New web installer</li> <li>Various bug fixes.</li> </ul>
New features in version 2.2	<ul style="list-style-type: none"> <li>Camera tab: <ul style="list-style-type: none"> <li>Logging feature in Camera Tab</li> <li>Recording and playback of SEQ files.</li> </ul> </li> <li>Various bug fixes.</li> </ul>
New features in version 2.1	<ul style="list-style-type: none"> <li>New Text Comment Template Tab: <ul style="list-style-type: none"> <li>Create, Edit and Transfer templates to and from any FLIR Camera.</li> <li>Import and Export of Templates.</li> </ul> </li> <li>Support for MSX (Multi-Spectral Dynamic Imaging ) Images</li> <li>Support for Sketch Images on both IR and Visual with toggling ON/OFF feature.</li> <li>Support for Same FOV ( Field of View Match )</li> <li>Display of Compass Information in Edit and in Report.</li> <li>Display of GPS Information in Edit and in Report. <ul style="list-style-type: none"> <li>Direct Link to Google Maps for GPS Tagged images from Report.</li> </ul> </li> <li>Support for 3x5 and 6x5 A-series cameras</li> </ul>

**P/N: T198584**

© 2015, FLIR Systems, Inc.  
#T198584; r. 25122; en-US

Release notes	
New features in version 2.0	<ul style="list-style-type: none"> <li>Camera tab: <ul style="list-style-type: none"> <li>Camera connection with FLIR UVC cameras.</li> <li>Measurement data analysis.</li> <li>Plotting.</li> <li>Snapshot saving with text annotation and plot.</li> </ul> </li> <li>Performance improvement for large reports: can now create reports and imagesheets of up to 200 pages.</li> <li>Various bug fixes.</li> </ul>
New features in version 1.3	<ul style="list-style-type: none"> <li>Import from ix series cameras.</li> <li>Add and remove a form from a group.</li> <li>Text comments are now saved in the infrared image.</li> <li>The indexing engine can create groups from IR, DC, and text annotations when indexing the paths in the watch folder.</li> <li>Arrow tool in the report toolbar.</li> <li>Reorder pages.</li> <li>Text annotations can now be edited in the report.</li> <li>New report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR).</li> <li>New sample images.</li> </ul>
New features in version 1.2 SP1	<ul style="list-style-type: none"> <li>Various bug fixes.</li> </ul>
New features in version 1.2	<ul style="list-style-type: none"> <li>Search function: <ul style="list-style-type: none"> <li>Store the five latest search criterias.</li> <li>Search in all texts in images and text annotations.</li> </ul> </li> <li>Sort function: <ul style="list-style-type: none"> <li>By date.</li> <li>Groups sorted by by path.</li> <li>Groups sorted by date.</li> </ul> </li> <li>Report editor: <ul style="list-style-type: none"> <li>Report page preview.</li> <li>Snap to grid.</li> <li>Various bug fixes.</li> </ul> </li> </ul>
New features in version 1.1 SP1	<ul style="list-style-type: none"> <li>Extension to the camera update functionality.</li> <li>Various bug fixes</li> </ul>
New features in version 1.1	<ul style="list-style-type: none"> <li>Software localized to 21 languages.</li> <li>Camera update. (Exx, T6xx)</li> <li>Option to rotate an infrared image in the infrared editor.</li> </ul>

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Digital download, or</li> <li>CD-ROM</li> </ul>
Packaging, weight	0.106 kg (0.23 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005279
UPC-12	845188005481
Country of origin	Sweden

System requirements	
Operating system	<ul style="list-style-type: none"> <li>Windows XP, 32-bit</li> <li>Windows Vista, 32-bit</li> <li>Windows 7, 32-bit</li> <li>Windows 7, 64-bit</li> <li>Windows 8, 32-bit</li> <li>Windows 8, 64-bit</li> </ul>

**P/N: T198584**

© 2015, FLIR Systems, Inc.  
#T198584; r. 25122; en-US

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm

**P/N: T198584**

© 2015, FLIR Systems, Inc.  
#T198584; r. 25122; en-US

- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

**P/N: T198584**

© 2015, FLIR Systems, Inc.  
#T198584; r. 25122; en-US

- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72001-0101; FLIR C2



**P/N: T198583**

## Copyright

© 2015, FLIR Systems, Inc.

All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: T198583

Commit: 25121

Language: en-US

Modified: 2015-04-29 09:50

Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.

27700 SW Parkway Ave.

Wilsonville, OR 97070

USA

Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

Compared to FLIR Tools, FLIR Tools+ has the following features:

- Radiometric Panorama incl. MSX
- Radiometric IR Video Recording
- Advanced Reporting

FLIR Tools/Tools+ is a software suite specifically designed to provide an easy way to update your camera and create inspection reports.

FLIR Tools+ main features:

- Manual IR/Visual Image Grouping
- Radiometric Panorama incl. MSX
- Radiometric IR Video Recording
- Advanced Reporting - Microsoft Office 2007 (32bit), and 2010 (32bit) support
- Report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR).
- Import images from your camera to your computer.
- Apply filters when searching for images.
- Search all text in images and text annotations.
- Store the five latest search criteria's.
- Lay out, move, and resize measurement tools on any infrared image.
- Create PDF imagesheets of any images of your choice.
- Add headers, footers, and logos to imagesheets.
- Create PDF reports for images of your choice.
- Add headers, footers, and logos to reports.
- Report editor (report page preview and snap to grid).
- Sort function (by date, groups sorted by path, and groups sorted by date).
- Browse and purchase infrared cameras, software, and accessories in the webshop.
- Software localized to 21 languages.
- Support for MSX (Multi-Spectral Dynamic Imaging ) Images
- Support for Sketch Images on both IR and Visual with toggling ON/OFF feature.
- Support for Same FOV ( Field of View Match )
- Display of Compass Information in Edit and in Report.
- Display of GPS Information in Edit and in Report.
- Microsoft Windows 7 (32- and 64-bit) and Windows 8 (32- and 64-bit)
- Camera update (applies to FLIR Ex, Kxx, Exx and T6xx series only).

## Download

Download a 30-day evaluation version here:

<http://support.flir.com/toolsplus>

## Release notes

Version	5.2
New features in version 5.2	<ul style="list-style-type: none"> <li>• Support for auto-adjusting a region.</li> <li>• Support for zoom.</li> <li>• Express Microsoft Word reporting (*.docx).</li> <li>• Various bug fixes.</li> </ul>

**P/N: T198583**

© 2015, FLIR Systems, Inc.  
#T198583; r. 25121; en-US

Release notes	
New features in version 5.1	<ul style="list-style-type: none"> <li>Improved import performance.</li> <li>Added support for video recording settings for FLIR Kxx series.</li> <li>Added support for importing video files from FLIR Kxx series.</li> <li>Added support for FLIR C2 camera.</li> <li>Various bug fixes.</li> </ul>
New features in version 5.0	<ul style="list-style-type: none"> <li>Local object parameters for measurement tools.</li> <li>Save a report in-process with the ability to edit at a later time.</li> <li>Pull-down menus for text annotations.</li> <li>Variable playback speed for recordings.</li> <li>Show or hide min./max./avg. temperature, and hot/cold markers, for areas and lines.</li> <li>Smoother display for low-resolution images.</li> <li>UltraMax image enhancement.</li> <li>Dropping support for Windows XP.</li> <li>Various bug fixes.</li> </ul>
New features in version 4.1	<ul style="list-style-type: none"> <li>Previous/next in Edit mode.</li> <li>Clone in the Library.</li> <li>Extract visual photo from a multispectral image.</li> <li>Import *.mp4, *.seq, and *.csq files from the camera.</li> <li>Playback/edit *.seq and *.csq files.</li> <li>Scale enhancement for the FLIR GF3xx series.</li> <li>Auto resize of thumbnails during importing for the FLIR T6xx series.</li> <li>Grouping/ungrouping now added.</li> <li>Various bug fixes.</li> </ul>
New features in version 4.0	<ul style="list-style-type: none"> <li>Support for the new FLIR Ex and Exx series cameras.</li> <li>Interactive quick start guide when connecting a FLIR camera.</li> <li>Improved library view.</li> <li>Support for multispectral images.</li> <li>Support for auto-oriented images.</li> <li>Various bug fixes.</li> </ul>
New features in version 3.1	<ul style="list-style-type: none"> <li>Support for FLIR K series cameras.</li> <li>Interactive quick start guide when connecting a FLIR K series camera.</li> <li>Live image streaming from FLIR K series cameras.</li> <li>PC-side configuration of FLIR K series cameras.</li> <li>New report templates for DC images only added.</li> <li>Various bug fixes.</li> </ul>
New features in version 3.0	<ul style="list-style-type: none"> <li>Add folder to library.</li> <li>Support for isotherms and color alarms</li> <li>Image description for both IR and DC.</li> <li>Export functionality (*.avi, *.csv).</li> <li>Microsoft Windows 8 (32- and 64-bit)</li> <li>New web installer</li> <li>Radiometric panorama with MSX images.</li> <li>Advanced reports.</li> <li>Manual grouping/ungrouping of images.</li> <li>Various bug fixes.</li> </ul>
New features in version 2.2	<ul style="list-style-type: none"> <li>Camera tab: <ul style="list-style-type: none"> <li>Logging feature in Camera Tab</li> <li>Recording and playback of SEQ files.</li> </ul> </li> <li>Various bug fixes.</li> </ul>
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>FLIR Tools+ scratchcard</li> </ul>
Packaging, weight	0.059 kg (0.13 lb.)

**P/N: T198583**

© 2015, FLIR Systems, Inc.  
#T198583; r. 25121; en-US

Shipping information	
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	73325585378 4743254001442 (Estonia plant)
UPC-12	845188005580
Country of origin	Sweden
System requirements	
Operating system	<ul style="list-style-type: none"> <li>• Windows XP, 32-bit</li> <li>• Windows Vista, 32-bit</li> <li>• Windows 7, 32-bit</li> <li>• Windows 7, 64-bit</li> <li>• Windows 8, 32-bit</li> <li>• Windows 8, 64-bit</li> </ul>
Software requirements	<ul style="list-style-type: none"> <li>• Office 2007, 32-bit</li> <li>• Office 2010, 32-bit</li> <li>• Office 2013, 32-bit</li> </ul>

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)

**P/N: T198583**

© 2015, FLIR Systems, Inc.  
#T198583; r. 25121; en-US

- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens

**P/N: T198583**

© 2015, FLIR Systems, Inc.  
#T198583; r. 25121; en-US

- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 63901-0101; FLIR E4
- 63905-0501; FLIR E5
- 63902-0202; FLIR E6
- 63903-0303; FLIR E8

## P/N: T198585

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198585  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

FLIR VideoReport makes reports including videos easy. You can create and edit your video clips taken with the FLIR GF series cameras. Build your movie with a few simple drag-and-drops. Delete bad shots and include only the best scenes.

FLIR VideoReport is a software package specifically designed to provide an easy way to edit non-radiometric \*.mp4 and \*.avi video clips, taken with FLIR GF series cameras.

### Key features:

- Create a longer video clip from several shorter ones, using a storyboard.
- Rearrange the order of shorter video clips on a storyboard before you create a longer video clip.
- Trim a video clip and make the portions that you don't want to display invisible.
- Save any frame from a video clip as an image.
- Add a title screen with custom text.
- Add explanatory text to any video clip.
- Play video clips at several different speeds.
- Read out measurement values, stored as metadata from, an \*.mp4 video clip.
- Add digital photos to a video clip.
- Add IR images to a video clip.
- Add GPS information from the camera to a video clip.
- Review file properties and information about the camera type, lens, and serial number.
- Split a video clip into two parts.
- Add markers (circle or arrow) as overlay graphics to any video clip.
- Auto Update function

### Download

This software is a freeware. To download, click the following link:

<http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=90>

**P/N: T198585**

© 2015, FLIR Systems, Inc.  
#T198585; r. 24597; en-US

Release notes	
Version	1.1 SP4
New features	<ul style="list-style-type: none"> <li>— News in SP4: —</li> <li>New codec implemented.</li> <li>Various bug fixes.</li> <li>— News in SP3: —</li> <li>New user interface design</li> <li>New logo functionality</li> <li>Various bug fixes</li> </ul>
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Digital download, or</li> <li>CD-ROM</li> </ul>
Packaging, weight	0.106 kg (0.23 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005385
UPC-12	845188005597
Country of origin	Sweden
System requirements	
Operating system	<ul style="list-style-type: none"> <li>Microsoft Windows XP with Service Pack 3 (SP3), 32-bit</li> <li>Microsoft Windows Vista with Service Pack 1 (SP1), 32-bit and 64-bit</li> <li>Microsoft Windows Vista with Service Pack 2 (SP2), 32-bit and 64-bit</li> <li>Microsoft Windows 7, 32-bit and 64-bit</li> </ul>
Software note	Run Windows® Update before you install FLIR VideoReport
Hardware requirements	<ul style="list-style-type: none"> <li>Personal computer with a 1 GHz 32-bit (x86) processor</li> <li>1 GB of RAM (minimum)</li> <li>40 GB hard disk, with at least 15 GB available hard disk space</li> <li>DVD-ROM drive</li> <li>Support for DirectX® 9 graphics with: <ul style="list-style-type: none"> <li>- WDDM driver</li> <li>- 128 MB of graphics memory (minimum)</li> <li>- Pixel shader 2.0 in hardware</li> <li>- 32 bits per pixel</li> </ul> </li> <li>Super VGA (1024 × 768) or higher-resolution monitor</li> <li>Internet access</li> <li>Audio output</li> <li>Keyboard and Microsoft® mouse, or a compatible pointing device</li> </ul>
Hardware note	Actual requirements and product functionality may vary based on your system configuration.

**Compatible with the following products**

- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens



---

**P/N: T198585**

© 2015, FLIR Systems, Inc.  
#T198585; r. 24597; en-US

- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens



## P/N: DSW-10000

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: DSW-10000  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

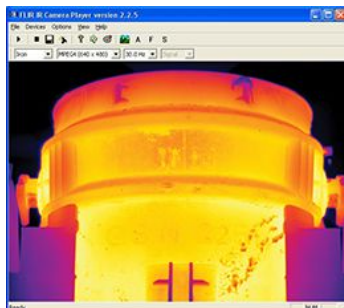
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

FLIR IR Camera Player is a PC-based remote control and viewer that you can use with cameras from FLIR Systems.

You can perform one or more of the following with FLIR IR Camera Player:

- Record a video stream from the camera.
- Save a frame from the video stream as a snapshot image (\*.bmp).
- Autofocus, focus far, and focus near.
- Autoadjust the camera image.
- Freeze the camera image.
- Save a camera image in the camera.
- Change Color palette.
- Add an image description and a text comment to an image.

You connect a camera in one of the following ways:

- Ethernet
- FireWire
- USB

### Download

This software is a freeware. To download, click the following link:

<http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=89>

### Release notes

Version	2.3.3
New features	<p>Main improvements in version 2.3.3:</p> <ul style="list-style-type: none"> <li>• Added latest device drivers (1.9.1.0).</li> <li>• Various bugfixes</li> </ul> <p>Main improvements in version 2.2.7:</p> <ul style="list-style-type: none"> <li>• Added support for FLIR Ax5 series.</li> </ul>

### System requirements

Operating system	<ul style="list-style-type: none"> <li>• Windows XP, 32-bit</li> <li>• Windows Vista, 32-bit/64-bit</li> <li>• Windows 7, 32-bit/64-bit</li> </ul>
------------------	--

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)

**P/N: DSW-10000**

© 2015, FLIR Systems, Inc.  
#DSW-10000; r. 24597; en-US

- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc

**P/N: DSW-10000**

© 2015, FLIR Systems, Inc.  
#DSW-10000; r. 24597; en-US

- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)



---

**P/N: DSW-10000**

© 2015, FLIR Systems, Inc.  
#DSW-10000; r. 24597; en-US

- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: APP-10002

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: APP-10002  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

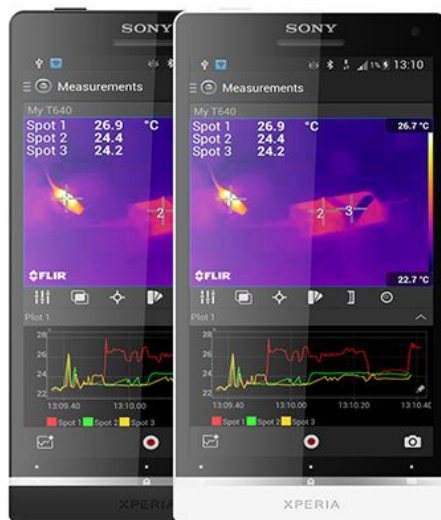
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

FLIR Tools Mobile is an intuitive Android app for analyzing, managing, and distributing infrared images.

#### Key features:

- Remote control
- MSX
- Images with sketch on DC and IR
- Images with field of view follow
- Editable text comments
- Emissivity table
- Import images from your Wi-Fi-enabled camera.
- Connect and stream infrared images from the camera.
- Connect and stream measurement data from FLIR Test & Measurement meters
- Lay out and move measurement tools on the image.
- Read out temperature measurements.
- Create and configure temporal plots based on results of measurement tools on the infrared image.
- Log measurement data and export it as a \*.csv file.
- Save a measurement scenario as a data snapshot.
- Zoom in on images.
- On the Android device, remotely take snapshots when a camera is connected.
- On the camera, take snapshots that will automatically be saved on the Android device.
- Delete images on the Android device.
- Display an image's GPS coordinates on Google Maps.
- Create and e-mail reports.
- Save images in the Android device photo library.
- Send images to FTP sites and other file-sharing services (Dropbox, Box.net, etc.).
- Display image information, e.g., object parameters, text comments, and file details.
- Play back voice comments.
- Change the level and span.
- Change general settings in the app.
- Change the palette.

### Download

The application can be downloaded from Android Market or Amazon Marketplace, see the link below.

<https://market.android.com/details?id=com.flir.viewer>



**P/N: APP-10002**

© 2015, FLIR Systems, Inc.  
#APP-10002; r. 24597; en-US

Release notes	
Version	3.4.0
New features	<p>Main improvements in version 3.4.0:</p> <ul style="list-style-type: none"><li>• Support for *.csq files.</li><li>• Various bug fixes.</li></ul> <p>Main improvements in version 3.2.0:</p> <ul style="list-style-type: none"><li>• Receive data logs from FLIR DM93.</li><li>• Save or export data logs in new *.csv format.</li><li>• Various bug fixes.</li></ul> <p>Main improvements in version 3.1.0:</p> <ul style="list-style-type: none"><li>• Added variable level of MSX alpha</li><li>• Added Fusion Blending mode for images with possibility to adjust level</li><li>• Stability fixes</li><li>• Improved memory management</li><li>• Modified internal handling of measurement results and displaying them.</li></ul>
System requirements	
Operating system	<ul style="list-style-type: none"><li>• Android 2.3 and later</li></ul>

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)

**P/N: APP-10002**

© 2015, FLIR Systems, Inc.  
#APP-10002; r. 24597; en-US

- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: APP-10003

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: APP-10003  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

FLIR Tools Mobile lets professional thermographers use an iPad, iPhone, or iPod touch to see and capture live, streaming infrared video and stills from select FLIR cameras.

With FLIR Tools Mobile the camera can be stationed in one area and operated wirelessly from another – highly useful for IR inspections of energized equipment or performing IR surveys in hard-to-reach locations and harsh working environments. Streaming video and remote access also gives decision makers and others on your team a valuable opportunity to observe and collaborate in the thermal imaging process.

Using FLIR Tools Mobile, you can do one or more of the following:

- Import images from your infrared camera
- Lay out and move measurement tools on the image
- Read out temperature measurements
- Zoom in on images
- On the iPhone/iPad, remotely take snapshots when a camera is connected
- On the camera, take snapshots that will automatically be saved in the iPhone/iPad
- Delete any images on the iPhone/iPad
- Display an image's GPS coordinates on Google Maps
- Create and e-mail imagesheets
- Create and e-mail reports
- Print imagesheets and reports to any AirPrint-enabled printer
- Save images to iPhone/iPad photo library
- Send images to FTP sites and other file sharing services (Dropbox, Box.net, etc.)
- Display image information, such as object parameters, text comments, file information, etc.
- Play-back voice comments
- Change level and span
- Change general settings in the app
- Change palette



**P/N: APP-10003**

© 2015, FLIR Systems, Inc.  
#APP-10003; r. 24597; en-US

General description	
FLIR Tools Mobile lets you take control of the following features on selected cameras:	
<ul style="list-style-type: none"> <li>• Remote control of your FLIR camera.</li> <li>• Support for MSX (Multi-Spectral Dynamic Imaging) images.</li> <li>• Support for sketch images in both IR and visual with on/off toggling.</li> <li>• Support for same FOV ("Field of View Match").</li> <li>• Editable text comments.</li> <li>• Auto and manual focus</li> <li>• Level and span</li> <li>• Color palettes</li> <li>• Temperature measurement analytics</li> <li>• Spot</li> <li>• Area box</li> <li>• Circle</li> <li>• Line</li> <li>• Parameter settings</li> <li>• Emissivity</li> <li>• Reflected temperature</li> <li>• Relative humidity</li> <li>• Atmospheric temperature</li> <li>• IR and visible light image blending</li> <li>• Picture-in-picture</li> <li>• Thermal fusion</li> <li>• Image storage</li> <li>• MPEG 4 video</li> <li>• Radiometric JPEG stills</li> </ul>	
Download	
The application can be downloaded from App Store, see the link below.	
<a href="http://itunes.apple.com/app/flir-tools/id511247887?mt=8">http://itunes.apple.com/app/flir-tools/id511247887?mt=8</a>	
Release notes	
Version	1.5.0
New features	<p>Main improvements in version 1.5.0:</p> <ul style="list-style-type: none"> <li>• Updated for iOS7.</li> <li>• Improved Library.</li> </ul> <p>Main improvements in version 1.3.2:</p> <ul style="list-style-type: none"> <li>• Added remote viewer mode for T4xx and Exx series.</li> <li>• Improved support for anonymous FTP server.</li> <li>• Improved image import from photo gallery.</li> </ul> <p>Main improvements in version 1.3:</p> <ul style="list-style-type: none"> <li>• Support for fusion images.</li> <li>• Marking fusion images with the stacked icon in the library browser.</li> <li>• Switching image modes while editing fusion images.</li> <li>• Switch between fusion IR/DC and grouped images during preview.</li> <li>• Support for landscape and portrait images.</li> <li>• Image parameters can be modified only in edit mode.</li> <li>• Support for FLIR Exx-series cameras.</li> </ul>
System requirements	
Operating system	<ul style="list-style-type: none"> <li>• iOS 4.0 or later</li> </ul>
Hardware requirements	<ul style="list-style-type: none"> <li>• iPhone</li> <li>• iPad</li> <li>• iPod</li> </ul>

**Compatible with the following products**

- N/A

## P/N: T198567

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198567  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

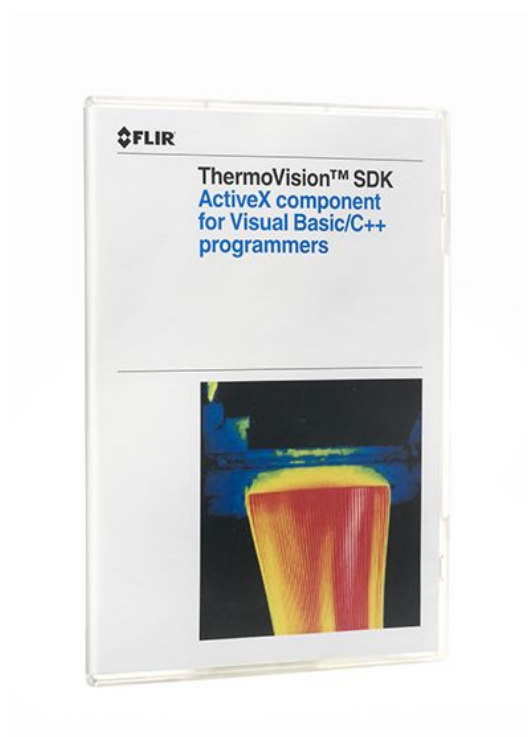
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
ThermoVision™ System Developers Kit	
Key features:	
<ul style="list-style-type: none"> <li>• Supports communication and broadcasting via FireWire™, Ethernet, and USB interfaces.</li> <li>• Gives the user full control of the camera.</li> <li>• Allows the user to set alarm conditions and measurement functions in the camera</li> <li>• Allows the user to define I/O functionality (FLIR A series).</li> <li>• Based on ActiveX technology.</li> <li>• Supports acquisition of images through FireWire™, Ethernet, and USB interfaces.</li> <li>• Reads from and writes to file in FLIR Systems' proprietary file format and writes to files in FLIR Systems' open floating point format (*.fpf).</li> <li>• Converts 16-bit absolute pixels into temperature pixels and several intermediate types of pixels formats, for maximum user flexibility. Applies to all camera models with temperature measurement capabilities.</li> <li>• Allows 16-bit temperature linear outputs from FLIR A series cameras.</li> <li>• Includes method that allows using individual emissivity value correction on any single pixel or condensed measuring value – e.g. average, minimum etc.</li> <li>• Supports conditional recording to file through FireWire™, Ethernet, and USB interfaces.</li> </ul>	
Users with licenses for the previous version can download a free upgrade via the following link: <a href="http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=62">http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=62</a>	
Release notes	
Version	ThermoVision 2.6 SP2
New features	<ul style="list-style-type: none"> <li>• — News in SP2:</li> <li>• Support for FLIR GF3XX series</li> <li>• Support for windowing in FLIR A615 and FLIR SC6x5</li> <li>• Support for windowing in FLIR SC6x0</li> <li>• Various bug fixes</li> </ul>
Shipping information	
Packaging, type	Cardboard box
Packaging, weight	0.132 kg (0.3 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)

**P/N: T198567**

© 2015, FLIR Systems, Inc.  
#T198567; r. 24597; en-US

Shipping information	
EAN-13	7332558005293
UPC-12	845188005504
Country of origin	Sweden

**Compatible with the following products**

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens



---

**P/N: T198567**

© 2015, FLIR Systems, Inc.  
#T198567; r. 24597; en-US

- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

## P/N: T198566

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198566  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

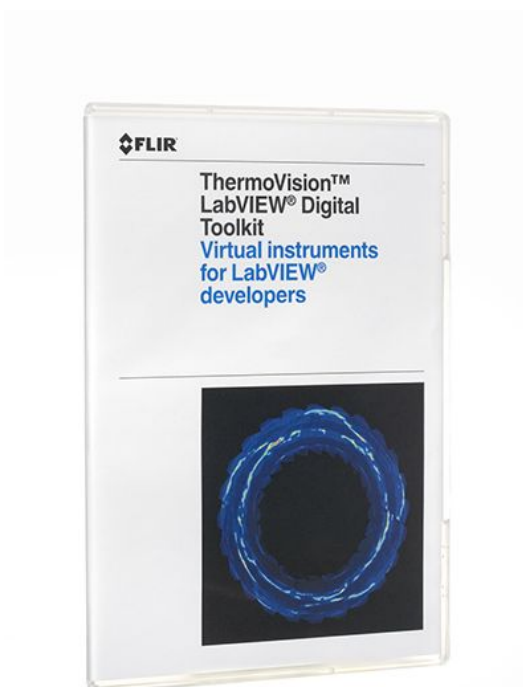
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
The ThermoVision LabVIEW Toolkit is a set of VIs (virtual instruments) for cameras that support alarms, measurement functions, and I/O functionality.	
Through LabVIEW, you can use these VIs as sub-VIs to manage communications with a FLIR IR camera in digital mode.	
You can also generate true temperature images from images acquired through LabVIEW, and can use the LabVIEW IR Measurement and Display tools to analyze the temperatures of imaged objects.	
Key features:	
<ul style="list-style-type: none"> <li>Set up communications between LabVIEW VI and a FLIR IR camera</li> <li>Capture and collect images via FireWire or Ethernet interfaces</li> <li>Adjust the camera configuration parameters and focus as you view a live image</li> <li>Control the camera calibration</li> <li>Send any other camera command to the camera</li> <li>Generate a true temperature image from a 16-bit image acquired using the camera's FireWire or Ethernet interfaces</li> <li>Close communications to the IR camera</li> </ul>	
Users with licenses for the previous version can download a free upgrade via the following link: <a href="http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=63">http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=63</a>	
Note: Only supports National Instrument 32-bit Labview	
Release notes	
Version	3.3
New features	<ul style="list-style-type: none"> <li>Windows 7 32- and 64-bit support</li> <li>Support for FLIR A615 and FLIR SC6X5 (including windowing)</li> <li>Support for windowing in FLIR SC660</li> <li>Various bug fixes</li> <li>New example VIs</li> </ul>
Shipping information	
Packaging, type	Cardboard box
Packaging, weight	0.133 kg (0.3 lb.)

**P/N: T198566**

© 2015, FLIR Systems, Inc.  
#T198566; r. 23306; en-US

Shipping information	
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005187
UPC-12	845188005399
Country of origin	Sweden

**Compatible with the following products**

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°



---

**P/N: T198566**

© 2015, FLIR Systems, Inc.  
#T198566; r. 23306; en-US

- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

## P/N: T199825

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T199825  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The Extended Warranty Package covers parts and labour for your IR camera, consumables not included. FLIR Systems warrants its products to be free from defects caused by faulty material or poor workmanship, for a period specified above. NO PRODUCT IS WARRANTED TO BE MERCHANTABLE OR FIT FOR ANY PARTICULAR USE OR APPLICATION. The warranty is void if the buyer damages the item due to misuse, abuse, modification, processing, or integration with other items. FLIR Systems' maximum liability under this warranty is limited to the obligation to replace or, at its sole option, to credit Buyer's account up to the purchase price.

### Download

Contact info can be found at:

<http://support.flir.com>

### Compatible with the following products

- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens



## P/N: T199834

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T199834  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

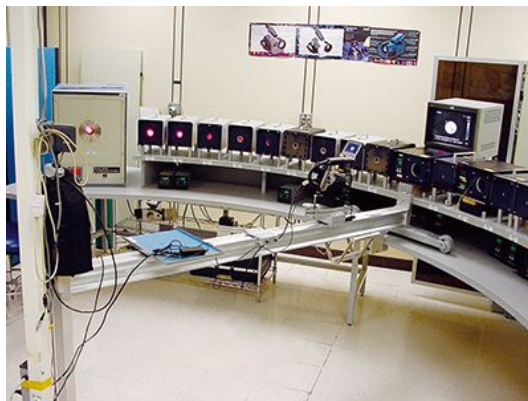
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

General Maintenance package offers a complete 14 points inspection and calibration service (for one lens combination). Shipping cost not included.

#### 14-point inspection program:

- Perform a complete operational check.
- Fusion calibration and laser alignment, when applicable.
- Verify all internal cable and PCB connections.
- Clean the viewfinder and check the optics.
- Upgrade the internal camera software to the latest revisions.
- Perform minor repairs.
- Verify and/or re-equalize as needed each temperature range for image uniformity.
- Verify standard lens calibration (optional: other or specially engineered lenses).
- Verify ambient temperature compensation as needed.
- Recalibration to ensure factory specifications are met.
- Calibrate temperature ranges up to +1500°C, when applicable.
- Perform a quality-approved acceptance test procedure.
- Provide a calibration label with the next due date.
- Provide a calibration certificate (optional: extended calibration certificate with measured values).

### Download

Contact info can be found at:

<http://support.flir.com>

### Compatible with the following products

- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°



---

**P/N: T199834**

© 2015, FLIR Systems, Inc.  
#T199834; r. 23306; en-US

- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

## P/N: ITC-ADV-3055

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3055  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course bridges the gap between IR thermography, background science and application theory. The participant will learn fundamental concepts of heat and chemistry, to setup and to operate the furnace camera, and to adjust it for environmental conditions related to furnace applications.

Lab and/or field practice is a key part of this class. Basic inspection procedures will be covered including equipment checkout, route planning, permitting requirements, safety practices/equipment and reporting concepts.

This partnumber is reserved for adding additional students to an advanced furnace application on site class.

### Content

- Introduction
- Working environment (refineries, units, furnaces)
- General rules, camera set up and operation
- On site job organization and related procedures
- Basics of radiative thermal transfer
- Principles and limitations of IR furnace applications
- Discussion and evaluation of inspection and measurement results
- Methodology
- Reporting

### Labs

- On site job organization
- Follow the site inspection procedure
- Site measurements
- If possible, field work on-site inspecting real equipment

### Course information

Available languages	English, French
Target group	<ul style="list-style-type: none"> <li>• Users of FLIR furnace cameras such as the FLIR GF309.</li> <li>• Users of models like AGEMA 550, Inframetrics 290/390, FLIR ThermoCAM P25F/P50F</li> <li>• Qualified thermographers who want to learn more about furnace applications</li> <li>• Non thermographers who want to learn how to use GF cameras or other cameras suited for furnace applications for measurements in their industry</li> </ul>

**P/N: ITC-ADV-3055**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3055; r. 23306; en-US

Course information	
Typical student	<ul style="list-style-type: none"> <li>A person working with furnace applications in the industry and/or with surveillance and/or predictive maintenance and rather moderate knowledge on IR thermography or</li> <li>A person from another IR application field, with rather moderate knowledge about furnace applications and not too much experience of GF cameras.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Basic understanding and knowledge of natural sciences</li> <li>Technical background</li> </ul>
Course details	
Duration	3 days, additional days upon request (ITC-ADV-4006)
Structure	Theory classes with integrated hands-on during day one and the morning of day two and three, practical labs respective exam in the afternoon of day two and three.
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>
Note	This course can only be booked via ITC due to the FLIR GF camera export restrictions.
Course organization	
ITC	The ITC Advanced Furnace Application Course is offered worldwide by ITC subsidiaries. Specific customer requests shall be forwarded to the closest ITC subsidiary.
ITC Trainers and Licensed Trainers	The ITC Advanced Furnace Application is lectured by qualified ITC trainers with special expertise in handling the GF cameras and furnace applications.

**Compatible with the following products**

- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens

## P/N: ITC-ADV-3051

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3051  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course bridges the gap between IR thermography, background science and application theory. The participant will learn fundamental concepts of heat and chemistry, to setup and to operate the furnace camera, and to adjust it for environmental conditions related to furnace applications.

Lab and/or field practice is a key part of this class. Basic inspection procedures will be covered including equipment checkout, route planning, permitting requirements, safety practices/equipment and reporting concepts.

### Content

- Introduction
- Working environment (refineries, units, furnaces)
- General rules, camera set up and operation
- On site job organization and related procedures
- Basics of radiative thermal transfer
- Principles and limitations of IR furnace applications
- Discussion and evaluation of inspection and measurement results
- Methodology
- Reporting

### Labs

- On site job organization
- Follow the site inspection procedure
- Site measurements
- If possible, field work on-site inspecting real equipment

### Course information

Available languages	English, French
Target group	<ul style="list-style-type: none"> <li>• Users of FLIR furnace cameras such as the FLIR GF309.</li> <li>• Users of models like AGEMA 550, Inframetrics 290/390, FLIR ThermoCAM P25F/P50F</li> <li>• Qualified thermographers who want to learn more about furnace applications</li> <li>• Non thermographers who want to learn how to use GF cameras or other cameras suited for furnace applications for measurements in their industry</li> </ul>

**P/N: ITC-ADV-3051**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3051; r. 23306; en-US

Course information	
Typical student	<ul style="list-style-type: none"> <li>A person working with furnace applications in the industry and/or with surveillance and/or predictive maintenance and rather moderate knowledge on IR thermography or</li> <li>A person from another IR application field, with rather moderate knowledge about furnace applications and not too much experience of GF cameras.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Basic understanding and knowledge of natural sciences</li> <li>Technical background</li> </ul>
Course details	
Duration	3 days, additional days upon request (ITC-ADV-4006)
Structure	Theory classes with integrated hands-on during day one and the morning of day two and three, practical labs respective exam in the afternoon of day two and three.
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>
Note	This course can only be booked via ITC due to the FLIR GF camera export restrictions.
Course organization	
ITC	The ITC Advanced Furnace Application Course is offered worldwide by ITC subsidiaries. Specific customer requests shall be forwarded to the closest ITC subsidiary.
ITC Trainers and Licensed Trainers	The ITC Advanced Furnace Application is lectured by qualified ITC trainers with special expertise in handling the GF cameras and furnace applications.

**Compatible with the following products**

- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens

## P/N: ITC-ADV-3059

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3059  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

ITC Advanced Furnace Applications Course - group up to 10 pers. (3 days)

### Course details

Duration	3 days
----------	--------

### Compatible with the following products

- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens



## P/N: ITC-ADV-3056

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3056  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course bridges the gap between IR thermography, background science and application theory. The participant will learn fundamental concepts of heat and chemistry, to setup and to operate the furnace camera, and to adjust it for environmental conditions related to furnace applications.

Lab and/or field practice is a key part of this class. Basic inspection procedures will be covered including equipment checkout, route planning, permitting requirements, safety practices/equipment and reporting concepts.

### Content

- Introduction
- Working environment (refineries, units, furnaces)
- General rules, camera set up and operation
- On site job organization and related procedures
- Basics of radiative thermal transfer
- Principles and limitations of IR furnace applications
- Discussion and evaluation of inspection and measurement results
- Methodology
- Reporting

### Labs

- On site job organization
- Follow the site inspection procedure
- Site measurements
- If possible, field work on-site inspecting real equipment

### Course information

Available languages	English, French
Target group	<ul style="list-style-type: none"> <li>• Users of FLIR furnace cameras such as the FLIR GF309.</li> <li>• Users of models like AGEMA 550, Inframetrics 290/390, FLIR ThermoCAM P25F/P50F</li> <li>• Qualified thermographers who want to learn more about furnace applications</li> <li>• Non thermographers who want to learn how to use GF cameras or other cameras suited for furnace applications for measurements in their industry</li> </ul>



**P/N: ITC-ADV-3056**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3056; r. 23306; en-US

Course information	
Typical student	<ul style="list-style-type: none"> <li>A person working with furnace applications in the industry and/or with surveillance and/or predictive maintenance and rather moderate knowledge on IR thermography or</li> <li>A person from another IR application field, with rather moderate knowledge about furnace applications and not too much experience of GF cameras.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Basic understanding and knowledge of natural sciences</li> <li>Technical background</li> </ul>
Course details	
Duration	3 days, additional days upon request (ITC-ADV-4006)
Structure	Theory classes with integrated hands-on during day one and the morning of day two and three, practical labs respective exam in the afternoon of day two and three.
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>ITC qualified instructor teaching the class</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 6 persons</li> <li>Might include more, such as lunch, refreshments, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Note	This course can only be booked via ITC due to the FLIR GF camera export restrictions.
Course organization	
ITC	The ITC Advanced Furnace Application Course is offered worldwide by ITC subsidiaries. Specific customer requests shall be forwarded to the closest ITC subsidiary.
ITC Trainers and Licensed Trainers	The ITC Advanced Furnace Application is lectured by qualified ITC trainers with special expertise in handling the GF cameras and furnace applications.

**Compatible with the following products**

- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens

## P/N: ITC-ADV-3035

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3035  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course bridges the gap between IR thermography, background science and application theory. The participant will learn fundamental concepts of heat and chemistry, to setup and to operate the GasFindIR camera, and to adjust it for environmental conditions to find gas leaks.

Lab and/or field practice in finding leaks is a key part of this class. Basic inspection procedures will be covered including equipment checkout, route planning, permitting requirements, safety practices/equipment and reporting concepts. After the course, the participant will be able to do qualified inspections on the base of existing laws, standards, and regulations.

Note 1: This course can only be booked via ITC due to the GasFindIR camera export restrictions. Please inform ITC if the customer has an MW or LW GasFindIR camera.

Note 2: This partnumber is reserved for adding additional students to a gas detection on site class.

### Content

- Introduction
- Camera set up and operation
- Thermal science fundamentals
- Heat transfer
- IR theory
- VOC absorption characteristics
- Survey and reporting
- Safety considerations

### Labs

- Hands-on and practical exercises during the afternoon of day 2.
- If possible, field work on-site inspecting real equipment, if not exercises on ITC's special tailored GasFindIR lab equipment.

**P/N: ITC-ADV-3035**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3035; r. 23306; en-US

Course information	
Available languages	English
Target group	<ul style="list-style-type: none"> <li>• Qualified thermographers who want to learn more about the special application volatile gas detection within the petrochemical industry with an IR MW camera.</li> <li>• Non thermographers who want to learn how to use their GasFindIR MW camera to complement or replace existing LDAR (Leak Detection And Repair) techniques in the petrochemical industry.</li> <li>• Qualified thermographers who want to learn more about the special application volatile gas detection for surveillance of electrical equipment with an IR LW camera.</li> <li>• Non thermographers who want to learn how to use their GasFindIR LW camera to complement or replace existing LDAR (Leak Detection And Repair) techniques.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person working in the petrochemical industry with surveillance and/or predictive maintenance and rather moderate knowledge on IR thermography or</li> <li>• a person working with surveillance and/or predictive maintenance of electrical equipment and rather moderate knowledge on IR thermography or</li> <li>• a person from another IR application field, with rather moderate knowledge about VOC gases and not too much experience of the specific GasFindIR camera.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Basic understanding and knowledge of natural sciences</li> <li>• Technical background</li> </ul>

Course details	
Duration	3 days (20 hours)
Structure	Theory classes with integrated hands-on during day one and the morning of day two and three, practical labs respective exam in the afternoon of day two and three.
Exam	A final exam (30 multiple choice questions) will be written on the 3d day in the afternoon. In connection, the correct answers will be discussed by the instructor and the participants.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Attendance of 1 person</li> <li>• Might include more, such as lunch, depending on location and organizing entity</li> </ul>
Note	Only for non-EURO, non-SEK, non NOK, non- £, -non CHF countries

Course organization	
ITC	The Advanced Gas Detection Course is offered worldwide by ITC subsidiaries as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary.
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Advanced Gas Detection Courses.

**Compatible with the following products**

- 44401-0201; FLIR GF300 14.5°

---

**P/N: ITC-ADV-3035**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3035; r. 23306; en-US

- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 24059-250; ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II PAL
- 24059-201; ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II NTSC
- 24059-251; ThermaCAM™ GasFindIR 25 mm lens Class I Div II PAL
- 24059-200; ThermaCAM™ GasFindIR 25 mm lens Class I Div II NTSC

## P/N: ITC-ADV-3031

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3031  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course bridges the gap between IR thermography, background science and application theory. The participant will learn fundamental concepts of heat and chemistry, to setup and to operate the GasFindIR camera, and to adjust it for environmental conditions to find gas leaks.

Lab and/or field practice in finding leaks is a key part of this class. Basic inspection procedures will be covered including equipment checkout, route planning, permitting requirements, safety practices/equipment and reporting concepts. After the course, the participant will be able to do qualified inspections on the base of existing laws, standards, and regulations.

Note: This course can only be booked via ITC due to the GasFindIR camera export restrictions. Please inform ITC if the customer has an MW or LW GasFindIR camera.

### Content

- Introduction
- Camera set up and operation
- Thermal science fundamentals
- Heat transfer
- IR theory
- VOC absorption characteristics
- Survey and reporting
- Safety considerations

### Labs

- Hands-on and practical exercises during the afternoon of day 2.
- If possible, field work on-site inspecting real equipment, if not exercises on ITC's special tailored GasFindIR lab equipment.

**P/N: ITC-ADV-3031**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3031; r. 23306; en-US

Course information	
Available languages	English
Target group	<ul style="list-style-type: none"> <li>• Qualified thermographers who want to learn more about the special application volatile gas detection within the petrochemical industry with an IR MW camera.</li> <li>• Non thermographers who want to learn how to use their GasFindIR MW camera to complement or replace existing LDAR (Leak Detection And Repair) techniques in the petrochemical industry.</li> <li>• Qualified thermographers who want to learn more about the special application volatile gas detection for surveillance of electrical equipment with an IR LW camera.</li> <li>• Non thermographers who want to learn how to use their GasFindIR LW camera to complement or replace existing LDAR (Leak Detection And Repair) techniques.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person working in the petrochemical industry with surveillance and/or predictive maintenance and rather moderate knowledge on IR thermography or</li> <li>• a person working with surveillance and/or predictive maintenance of electrical equipment and rather moderate knowledge on IR thermography or</li> <li>• a person from another IR application field, with rather moderate knowledge about VOC gases and not too much experience of the specific GasFindIR camera.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Basic understanding and knowledge of natural sciences</li> <li>• Technical background</li> </ul>
Course details	
Duration	3 days (20 hours)
Structure	Theory classes with integrated hands-on during day one and the morning of day two and three, practical labs respective exam in the afternoon of day two and three.
Exam	A final exam (30 multiple choice questions) will be written on the 3d day in the afternoon. In connection, the correct answers will be discussed by the instructor and the participants.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Attendance of 1 person</li> <li>• Might include more, such as lunch, depending on location and organizing entity</li> </ul>
Course organization	
ITC	The Advanced Gas Detection Course is offered worldwide by ITC subsidiaries as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary.
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Advanced Gas Detection Courses.

**Compatible with the following products**

- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°

---

**P/N: ITC-ADV-3031**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3031; r. 23306; en-US

- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 24059-250; ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II PAL
- 24059-201; ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II NTSC
- 24059-251; ThermaCAM™ GasFindIR 25 mm lens Class I Div II PAL
- 24059-200; ThermaCAM™ GasFindIR 25 mm lens Class I Div II NTSC

## P/N: ITC-ADV-3039

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3039  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course bridges the gap between IR thermography, background science and application theory. The participant will learn fundamental concepts of heat and chemistry, to setup and to operate the GasFindIR camera, and to adjust it for environmental conditions to find gas leaks.

Lab and/or field practice in finding leaks is a key part of this class. Basic inspection procedures will be covered including equipment checkout, route planning, permitting requirements, safety practices/equipment and reporting concepts. After the course, the participant will be able to do qualified inspections on the base of existing laws, standards, and regulations.

Note: This course can only be booked via ITC due to the GasFindIR camera export restrictions. Please inform ITC if the customer has an MW or LW GasFindIR camera.

### Content

- Introduction
- Camera set up and operation
- Thermal science fundamentals
- Heat transfer
- IR theory
- VOC absorption characteristics
- Survey and reporting
- Safety considerations

### Labs

- Hands-on and practical exercises during the afternoon of day 2.
- If possible, field work on-site inspecting real equipment, if not exercises on ITC's special tailored GasFindIR lab equipment.



**P/N: ITC-ADV-3039**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3039; r. 23306; en-US

Course information	
Available languages	English
Target group	<ul style="list-style-type: none"> <li>• Qualified thermographers who want to learn more about the special application volatile gas detection within the petrochemical industry with an IR MW camera.</li> <li>• Non thermographers who want to learn how to use their GasFindIR MW camera to complement or replace existing LDAR (Leak Detection And Repair) techniques in the petrochemical industry.</li> <li>• Qualified thermographers who want to learn more about the special application volatile gas detection for surveillance of electrical equipment with an IR LW camera.</li> <li>• Non thermographers who want to learn how to use their GasFindIR LW camera to complement or replace existing LDAR (Leak Detection And Repair) techniques.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person working in the petrochemical industry with surveillance and/or predictive maintenance and rather moderate knowledge on IR thermography or</li> <li>• a person working with surveillance and/or predictive maintenance of electrical equipment and rather moderate knowledge on IR thermography or</li> <li>• a person from another IR application field, with rather moderate knowledge about VOC gases and not too much experience of the specific GasFindIR camera.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Basic understanding and knowledge of natural sciences</li> <li>• Technical background</li> </ul>
Course details	
Duration	3 days (20 hours)
Structure	Theory classes with integrated hands-on during day one and the morning of day two and three, practical labs respective exam in the afternoon of day two and three.
Exam	A final exam (30 multiple choice questions) will be written on the 3d day in the afternoon. In connection, the correct answers will be discussed by the instructor and the participants.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Attendance of a group up to 10 persons</li> <li>• Might include more, such as lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	The Advanced Gas Detection Course is offered worldwide by ITC subsidiaries as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary.
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Advanced Gas Detection Courses.

**Compatible with the following products**

- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens

**P/N: ITC-ADV-3039**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3039; r. 23306; en-US

- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 24059-250; ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II PAL
- 24059-201; ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II NTSC
- 24059-251; ThermaCAM™ GasFindIR 25 mm lens Class I Div II PAL
- 24059-200; ThermaCAM™ GasFindIR 25 mm lens Class I Div II NTSC

## P/N: ITC-ADV-3036

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3036  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course bridges the gap between IR thermography, background science and application theory. The participant will learn fundamental concepts of heat and chemistry, to setup and to operate the GasFindIR/FLIR GF3xx camera, and to adjust it for environmental conditions to find gas leaks.

Lab and/or field practice in finding leaks is a key part of this class. Basic inspection procedures will be covered including equipment checkout, route planning, permitting requirements, safety practices/equipment and reporting concepts. After the course, the participant will be able to do qualified inspections on the base of existing laws, standards, and regulations.

### Content

- Introduction
- Camera set up and operation
- Thermal science fundamentals
- Heat transfer
- IR theory
- VOC absorption characteristics
- Survey and reporting
- Safety considerations

### Labs

- Hands-on and practical exercises during the afternoon of day 2.
- If possible, field work on-site inspecting real equipment, if not exercises on ITC's special tailored gas detection lab equipment.

**P/N: ITC-ADV-3036**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3036; r. 23306; en-US

Course information	
Available languages	English, French
Target group	<ul style="list-style-type: none"> <li>Qualified thermographers who want to learn more about the special application volatile gas detection within the petrochemical industry with an infrared MW camera.</li> <li>Non thermographers who want to learn how to use their GasFindIR or FLIR GF MW camera to complement or replace existing LDAR (Leak Detection And Repair) techniques in the petrochemical industry.</li> <li>Qualified thermographers who want to learn more about the special application volatile gas detection for surveillance of electrical equipment with an infrared LW camera.</li> <li>Non thermographers who want to learn how to use their GasFindIR or FLIR GF LW camera to complement or replace existing LDAR (Leak Detection And Repair) techniques.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>A person working in the petrochemical industry with surveillance and/or predictive maintenance and rather moderate knowledge on IR thermography or</li> <li>A person working with surveillance and/or predictive maintenance of electrical equipment and rather moderate knowledge on IR thermography or</li> <li>A person from another IR application field, with rather moderate knowledge about VOC gases and not too much experience of the specific GasFindIR or FLIR GF3xx camera.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Basic understanding and knowledge of natural sciences</li> <li>Technical background</li> </ul>
Course details	
Duration	3 days, additional days upon request (ITC-ADV-4006)
Structure	Theory classes with integrated hands-on during day one and the morning of day two and three, practical labs respective exam in the afternoon of day two and three.
Exam	A final exam (30 multiple choice questions) will be written on the 3d day in the afternoon. In connection, the correct answers will be discussed by the instructor and the participants.
Course fee includes	<ul style="list-style-type: none"> <li>ITC licensed instructor teaching the class</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Might include more, such as lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Note	This course can only be booked via ITC due to the GasFindIR and GF camera export restrictions. Please inform ITC if the customer has an MW or LW GasFindIR or GF camera.
Course organization	
ITC	The ITC Advanced Gas Detection Course is offered worldwide by ITC subsidiaries. Specific customer requests shall be forwarded to the closest ITC subsidiary.
ITC Trainers and Licensed Trainers	T560392 Trainers teaching courses lists all licensed trainers and ITC trainers authorized to teach the ITC Advanced Gas Detection Courses.

---

**P/N: ITC-ADV-3036**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3036; r. 23306; en-US

**Compatible with the following products**

- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 24059-250; ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II PAL
- 24059-201; ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II NTSC
- 24059-251; ThermaCAM™ GasFindIR 25 mm lens Class I Div II PAL
- 24059-200; ThermaCAM™ GasFindIR 25 mm lens Class I Div II NTSC

## P/N: ITC-ADV-4006

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-4006  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

An additional day can be booked when the customer wants to extend the training content, software exercises or guided field practice.

The fourth day can be added to the following courses:

ITC-ADV-3036

ITC-ADV-3056

### Content

- Customized, build on the topics of the course prior to the additional day

### Labs

- Customized, depending on the equipment used and the application of interest

### Course information

Available languages	English, other languages upon demand
Target group	<ul style="list-style-type: none"> <li>• Participants of advanced courses that are delivered on-site</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Persons with special interests in the equipment and their application requesting in-depth training or additional guidance.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Please refer to the pre-requisites of the course prior to the additional day</li> </ul>

### Course details

Duration	1 day
Structure	Customized upon the customer's request
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>• ITC qualified instructor teaching the class</li> <li>• Training material in printed format</li> <li>• Diploma of attendance</li> <li>• Attendance of a group up to 6 persons</li> <li>• Might include more, such as lunch, refreshments, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>

**P/N: ITC-ADV-4006**

© 2015, FLIR Systems, Inc.

#ITC-ADV-4006; r. 23306; en-US

Course organization	
ITC	Additional days are offered by the ITC or ITC partner arranging the respective standard class prior to the additional day. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Additional days are normally lectured by the same ITC trainers lecturing the standard class prior to the additional day.

**Compatible with the following products**

- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 24059-250; ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II PAL
- 24059-201; ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II NTSC
- 24059-251; ThermaCAM™ GasFindIR 25 mm lens Class I Div II PAL
- 24059-200; ThermaCAM™ GasFindIR 25 mm lens Class I Div II NTSC

## P/N: ITC-CON-1001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CON-1001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

ITC conference fee

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)



**P/N: ITC-CON-1001**

© 2015, FLIR Systems, Inc.

#ITC-CON-1001; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-CON-1001**

© 2015, FLIR Systems, Inc.

#ITC-CON-1001; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-EXP-1041

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1041  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This is a special day emphasizing on specifications of equipment towards the particularities of applications (for instance triggering or high speed). It addresses mainly the needs of high-end camera users in the scientific or industrial fields.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, French, other languages upon request
Target group	<ul style="list-style-type: none"> <li>Highly specialized users with advanced and scientific applications as well as persons interested in these applications and related infrared equipment.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Researchers</li> <li>Scientists</li> <li>University students</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Basic knowledge about thermography and related parameters.</li> <li>Experience in measurement techniques and general software skills.</li> </ul>
Course details	
Duration	Typically 1 day
Structure	Theory and hands-on, depending on topics
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material</li> <li>Diploma of attendance</li> </ul>
Note	This course is typically organized at the customer's site. Course fee does not include cost for instructor's travelling or lodging. The customer is responsible for providing a suitable classroom and preferably also refreshments/lunch.

**P/N: ITC-EXP-1041**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1041; r. 23306; en-US

Course organization	
ITC	ITC customized workshops are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	ITC customized workshops are lectured by ITC qualified specialists having the relevant expertise in the workshop's subject and the related fields of application.

**Compatible with the following products**

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC

**P/N: ITC-EXP-1041**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1041; r. 23306; en-US

- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

## P/N: ITC-EXP-1050

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1050  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Consultancy can be described as any action or arrangement that is not strictly a training course. Most likely, a thermal camera will be involved. It can be, but is not restricted to:

- Pre-sales equipment or software demonstration over the normal extend
- Equipment and software demonstration and explanation over the normal extend
- Advanced technical support
- Application support
- Comparative study involving a camera, either alone or in conjunction with other instruments
- General measurements in a difficult or unusual situation

### Content

- Customized

### Labs

- Customized

### Course information

Available languages	English, French, other languages upon request
Target group	<ul style="list-style-type: none"> <li>• Advanced users who wish to receive an in-depth guidance to complex problems related to infrared equipment, applications, and measurement questions.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Industry technical personnel</li> <li>• Researchers</li> <li>• Scientists</li> <li>• University students</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic knowledge about thermography and related parameters.</li> <li>• Experience in measurement techniques and general software skills.</li> </ul>

### Course details

Duration	Typically 1 day
Structure	Theory and hands-on, depending on topics

**P/N: ITC-EXP-1050**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1050; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Consultancy by qualified ITC specialist</li> <li>Training and/or reference material</li> </ul>
Note	Consultancy is typically carried out at the customer's site. The fee does not include costs for instructor's travelling or lodging. The customer is responsible for providing access to the equipment or objects that should be analyzed or measured, a suitable meeting room, and preferably also refreshments/lunch.
Course organization	
ITC	ITC consultancy is offered by ITC in EMEA. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	ITC consultancy is delivered by ITC qualified specialists having the relevant expertise in infrared measurement and the related fields of application.

**Compatible with the following products**

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°

**P/N: ITC-EXP-1050**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1050; r. 23306; en-US

- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens



## P/N: ITC-EXP-1021

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1021  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
An on-site training can be customized upon your needs. The participants will learn about IR thermography, inspections, measurements, applications, and reporting corresponding to the level needed for performing measurements and inspection in their working environment. The trainer will give useful advice on how to best implement IR thermography in your business.	
This partnumber is reserved for adding additional students to an on site class.	
Content	
<ul style="list-style-type: none"> <li>An on-site course can be any course, from a 1-day introduction to general thermography, over a customized application course to a complete certification course.</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Portable classroom labs</li> <li>Field training on the site in agreement with the customer</li> </ul>	
Course information	
Available languages	English, Dutch, German, French, Italian, Spanish, Swedish, other languages upon request
Target group	<ul style="list-style-type: none"> <li>Employees of a company or certain departments who would like to minimize travel costs and receive the training directly on their daily working site.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>
Course details	
Duration	Customized or according to the kind of course the in-house training is equivalent to.
Structure	Theory, camera handling, demos, practical labs and field training alternate.

**P/N: ITC-EXP-1021**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1021; r. 23306; en-US

Course details	
Exam	Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> </ul>
Course organization	
ITC	ITC In-house courses are offered worldwide by ITC and partners as listed. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	ITC In-house courses are lectured by ITC qualified instructors with experience in the relevant fields of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm

**P/N: ITC-EXP-1021**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1021; r. 23306; en-US

- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°

**P/N: ITC-EXP-1021**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1021; r. 23306; en-US

- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-1029

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1029  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
An on-site training can be customized upon your needs. The participants will learn about IR thermography, inspections, measurements, applications, and reporting corresponding to the level needed for performing measurements and inspection in their working environment. The trainer will give useful advice on how to best implement IR thermography in your business.	
Content	
<ul style="list-style-type: none"> <li>An on-site course can be any course, from a 1-day introduction to general thermography, over a customized application course to a complete certification course.</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Portable classroom labs</li> <li>Field training on the site in agreement with the customer</li> </ul>	
Course information	
Available languages	English, Dutch, German, French, Italian, Spanish, Swedish, other languages upon request
Target group	<ul style="list-style-type: none"> <li>Employees of a company or certain departments who would like to minimize travel costs and receive the training directly on their daily working site.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>
Course details	
Duration	Customized or according to the kind of course the in-house training is equivalent to.
Structure	Theory, camera handling, demos, practical labs and field training alternate.
Exam	Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.

**P/N: ITC-EXP-1029**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1029; r. 23306; en-US

Course details	
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> </ul>
Note	Course fee does not include cost for instructor's travelling or lodging. When organized at the customers' site, the customer is responsible for providing a suitable classroom and preferably also refreshments/lunch.
Course organization	
ITC	ITC In-house courses are offered worldwide by ITC and partners as listed. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	ITC In-house courses are lectured by ITC qualified instructors with experience in the relevant fields of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)

**P/N: ITC-EXP-1029**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1029; r. 23306; en-US

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL

**P/N: ITC-EXP-1029**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1029; r. 23306; en-US

- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display



## P/N: ITC-SOW-0001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-SOW-0001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
These courses are for users of FLIR software like FLIR Reporter Professional or FLIR ResearchIR. Please observe that content and labs depend on the software used.	
Content	
<ul style="list-style-type: none"> <li>• System requirements</li> <li>• Configuration</li> <li>• Analyzing functions</li> <li>• Templates</li> <li>• Reporting functions</li> <li>• Data exchange</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>• System set up</li> <li>• Data import</li> <li>• Data analysis</li> <li>• Creating templates</li> <li>• Creating reports</li> <li>• Exporting data</li> <li>• Triggering</li> </ul>	
Course information	
Available languages	English, French, German, other languages upon request
Target group	<ul style="list-style-type: none"> <li>• Persons interested in, or users, of the specific software.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Consultants interested in reporting</li> <li>• Building inspectors with reporting needs</li> <li>• R&amp;D staff interested in advanced data analysis</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Laptop with installed software full version or 30 day demo (download on <a href="http://www.flir.com">www.flir.com</a>)</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic knowledge about thermography and related parameters.</li> </ul>
Course details	
Duration	Depends on software.
Structure	Short system introduction, then demos and practical exercises.

**P/N: ITC-SOW-0001**

© 2015, FLIR Systems, Inc.  
#ITC-SOW-0001; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>
Course organization	
ITC	Software courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Software courses are lectured by ITC qualified instructors experienced in usage of the software being subject of the class.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)

**P/N: ITC-SOW-0001**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0001; r. 23306; en-US

- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°

**P/N: ITC-SOW-0001**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0001; r. 23306; en-US

- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-SOW-0009

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-SOW-0009  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
These courses are for users of FLIR software like FLIR Reporter Professional or FLIR ResearchIR. Please observe that content and labs depend on the software used.	
Content	
<ul style="list-style-type: none"> <li>• System requirements</li> <li>• Configuration</li> <li>• Analyzing functions</li> <li>• Templates</li> <li>• Reporting functions</li> <li>• Data exchange</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>• System set up</li> <li>• Data import</li> <li>• Data analysis</li> <li>• Creating templates</li> <li>• Creating reports</li> <li>• Exporting data</li> <li>• Triggering</li> </ul>	
Course information	
Available languages	English, French, German, other languages upon request
Target group	<ul style="list-style-type: none"> <li>• Persons interested in, or users, of the specific software.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Consultants interested in reporting</li> <li>• Building inspectors with reporting needs</li> <li>• R&amp;D staff interested in advanced data analysis</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Laptop with installed software full version or 30 day demo (download on <a href="http://www.flir.com">www.flir.com</a>)</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic knowledge about thermography and related parameters.</li> </ul>
Course details	
Duration	Depends on software.
Structure	Short system introduction, then demos and practical exercises.

**P/N: ITC-SOW-0009**

© 2015, FLIR Systems, Inc.  
#ITC-SOW-0009; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	Software courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Software courses are lectured by ITC qualified instructors experienced in usage of the software being subject of the class.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm

**P/N: ITC-SOW-0009**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0009; r. 23306; en-US

- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°

**P/N: ITC-SOW-0009**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0009; r. 23306; en-US

- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display



## P/N: ITC-EXP-1001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	1 day
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-1001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1001; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-1001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1001; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

---

**P/N: ITC-EXP-1001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1001; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-1009

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1009  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	1 day
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-1009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1009; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-1009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1009; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-1009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1009; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display



## P/N: ITC-EXP-2001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	2 days
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-2001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2001; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-2001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2001; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-2001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2001; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-2009

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2009  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	2 days
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-2009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2009; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-2009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2009; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-2009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2009; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display



## P/N: ITC-EXP-3001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-3001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	3 days
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-3001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3001; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-3001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3001; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-3001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3001; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-3009

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-3009  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	3 days
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-3009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3009; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-3009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3009; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-3009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3009; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display



## P/N: ITC-TFT-0100

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TFT-0100  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

ITC travel time for instructor

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TFT-0100**

© 2015, FLIR Systems, Inc.  
#ITC-TFT-0100; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TFT-0100**

© 2015, FLIR Systems, Inc.  
#ITC-TFT-0100; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TOL-1003

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1003  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (Center and South Africa)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1003**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1003; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TOL-1003**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1003; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TOL-1001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (Europe, Balcans, Turkey, Cyprus)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1001**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1001; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC



**P/N: ITC-TOL-1001**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1001; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TOL-1005

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1005  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (other)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1005**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1005; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TOL-1005**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1005; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TOL-1002

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1002  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (Russia/GUS, Middle East, North Africa)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1002**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1002; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TOL-1002**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1002; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TOL-1004

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1004  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (various)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)



**P/N: ITC-TOL-1004**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1004; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TOL-1004**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1004; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

# Accessories for ThermaCAM GasFindIR series

---

## P/N: 20887-200

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 20887-200  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

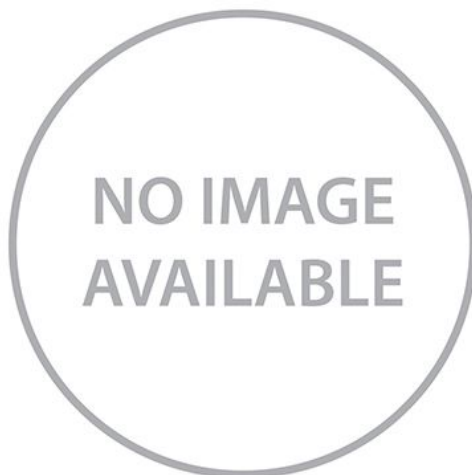
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This lens is suitable for the majority of applications.	
Licensing and classification	
License information	Interchangeable lens version of the ThermaCAM™ GasFindIR Class I, Div II, the ThermaCAM™ GasFindIR CO and the ThermaCAM™ GasFindIR HSX requires US Department of State License and will be subject to limitations on resale, except inside US. Allow a minimum of 90 days after application submittal for approval.
Imaging and optical data	
Field of view (FOV)	22° × 16°
Focal length	25 mm (0.98 in.)
Spatial resolution (IFOV)	1.2 mrad
F-number	2.3

### Compatible with the following products

- 24059-251; ThermaCAM™ GasFindIR 25 mm lens Class I Div II PAL
- 24059-200; ThermaCAM™ GasFindIR 25 mm lens Class I Div II NTSC

## P/N: 20888-200

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 20888-200  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
50 mm Lens	
Licensing and classification	
License information	Interchangeable lens version of the ThermaCAM™ GasFindIR Class I, Div II, the ThermaCAM™ GasFindIR CO and the ThermaCAM™ GasFindIR HSX requires US Department of State License and will be subject to limitations on resale, except inside US. Allow a minimum of 90 days after application submittal for approval.
Imaging and optical data	
Field of view (FOV)	11° × 8°
Focal length	50 mm (1.97 in.)
Spatial resolution (IFOV)	0.6 mrad
F-number	2.3
Shipping information	
List of contents	<ul style="list-style-type: none"> <li>• Lens</li> <li>• Lens cap</li> <li>• Lens case</li> </ul>

### Compatible with the following products

- 24059-251; ThermaCAM™ GasFindIR 25 mm lens Class I Div II PAL
- 24059-200; ThermaCAM™ GasFindIR 25 mm lens Class I Div II NTSC

## P/N: 20889-200

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 20889-200  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
100 mm Lens	
Licensing and classification	
License information	Interchangeable lens version of the ThermaCAM™ GasFindIR Class I, Div II, the ThermaCAM™ GasFindIR CO and the ThermaCAM™ GasFindIR HSX requires US Department of State License and will be subject to limitations on resale, except inside US. Allow a minimum of 90 days after application submittal for approval.
Imaging and optical data	
Field of view (FOV)	5.5° × 4°
Focal length	100 mm (3.94 in.)
Spatial resolution (IFOV)	0.3 mrad
F-number	2.3
Shipping information	
List of contents	<ul style="list-style-type: none"> <li>• Lens</li> <li>• Lens cap</li> <li>• Lens case</li> </ul>

### Compatible with the following products

- 24059-251; ThermaCAM™ GasFindIR 25 mm lens Class I Div II PAL
- 24059-200; ThermaCAM™ GasFindIR 25 mm lens Class I Div II NTSC

## P/N: 24016-000

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 24016-000  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Lens Hood for 25 mm lens	

Physical data	
Color	Black

### Compatible with the following products

- 24059-251; ThermaCAM™ GasFindIR 25 mm lens Class I Div II PAL
- 24059-200; ThermaCAM™ GasFindIR 25 mm lens Class I Div II NTSC

## P/N: 24016-001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 24016-001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Lens Hood for 50 mm lens	
Physical data	
Color	Black

### Compatible with the following products

- 24059-251; ThermaCAM™ GasFindIR 25 mm lens Class I Div II PAL
- 24059-200; ThermaCAM™ GasFindIR 25 mm lens Class I Div II NTSC



## P/N: EXT-WAR-GCAM

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: EXT-WAR-GCAM  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

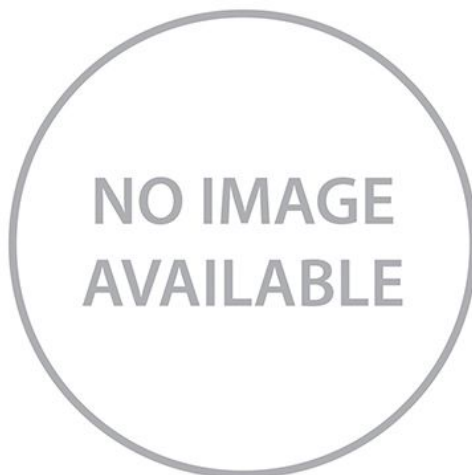
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description
One Year Extended Warranty for InSb GasFindIR

### Compatible with the following products

- 24059-250; ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II PAL
- 24059-201; ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II NTSC
- 24059-251; ThermaCAM™ GasFindIR 25 mm lens Class I Div II PAL
- 24059-200; ThermaCAM™ GasFindIR 25 mm lens Class I Div II NTSC

## P/N: 23563-201

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 23563-201  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Licensing and classification	
License information	Interchangeable lens version of the ThermaCAM™ GasFindIR LW requires US Department of State License and will be subject to limitations on resale, except inside US. Allow a minimum of 90 days after application submittal for approval.
Imaging and optical data	
Field of view (FOV)	22° × 16°
Focal length	25 mm (0.98 in.)
Spatial resolution (IFOV)	1.2 mrad
F-number	2.0
Shipping information	
List of contents	<ul style="list-style-type: none"><li>• Lens</li><li>• Lens caps</li><li>• Lens case</li></ul>

### Compatible with the following products

- N/A

## P/N: 23563-202

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 23563-202  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Licensing and classification	
License information	Interchangeable lens version of the ThermaCAM™ GasFindIR LW requires US Department of State License and will be subject to limitations on resale, except inside US. Allow a minimum of 90 days after application submittal for approval.
Imaging and optical data	
Field of view (FOV)	5.5° × 4°
Focal length	100 mm (3.94 in.)
Spatial resolution (IFOV)	0.3 mrad
F-number	2.0
Shipping information	
List of contents	<ul style="list-style-type: none"> <li>• Lens</li> <li>• Lens cap</li> <li>• Lens case</li> </ul>

### Compatible with the following products

- N/A

## P/N: EXT-WAR-GCAM-LW

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: EXT-WAR-GCAM-LW  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

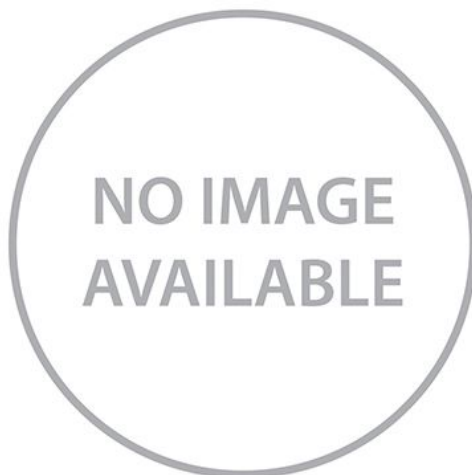
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description
One year extended warranty for GasFindIR LW

### Compatible with the following products

- N/A

## P/N: 03198-000

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 03198-000  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This cable is used to transfer video signals from the infrared camera to an external monitor, or to a computer featuring an internal video card.

### Physical data

Cable length	1.8 m (6 ft.)
Connector	BNC

### Compatible with the following products

- 24059-250; ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II PAL
- 24059-201; ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II NTSC
- 24059-251; ThermaCAM™ GasFindIR 25 mm lens Class I Div II PAL
- 24059-200; ThermaCAM™ GasFindIR 25 mm lens Class I Div II NTSC

## P/N: 14730-000

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 14730-000  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This cable is used to connect the infrared camera with a computer, using serial communication (RS-232).

### Physical data

Connector	9-pin D-sub, DB9
-----------	------------------

### Compatible with the following products

- 24059-250; ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II PAL
- 24059-201; ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II NTSC
- 24059-251; ThermaCAM™ GasFindIR 25 mm lens Class I Div II PAL
- 24059-200; ThermaCAM™ GasFindIR 25 mm lens Class I Div II NTSC

## P/N: 20981-500

### Copyright

© 2015, FLIR Systems, Inc.

All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 20981-500

Commit: 23306

Language: en-US

Modified: 2015-02-23 15:46

Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.

27700 SW Parkway Ave.

Wilsonville, OR 97070

USA

Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This cable is used to transfer S-video signals from the infrared camera to an external monitor, or to a computer featuring an internal video card.

### Compatible with the following products

- 24059-250; ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II PAL
- 24059-201; ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II NTSC
- 24059-251; ThermaCAM™ GasFindIR 25 mm lens Class I Div II PAL
- 24059-200; ThermaCAM™ GasFindIR 25 mm lens Class I Div II NTSC

## P/N: 21466-000

### Copyright

© 2015, FLIR Systems, Inc.

All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 21466-000

Commit: 23306

Language: en-US

Modified: 2015-02-23 15:46

Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.

27700 SW Parkway Ave.

Wilsonville, OR 97070

USA

Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This cable is used to connect the infrared camera to an external personal video recorder.

### Compatible with the following products

- 24059-250; ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II PAL
- 24059-201; ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II NTSC
- 24059-251; ThermaCAM™ GasFindIR 25 mm lens Class I Div II PAL
- 24059-200; ThermaCAM™ GasFindIR 25 mm lens Class I Div II NTSC



**P/N: 21465-000**

**Copyright**

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

**Document identity**

Publ. No.: 21465-000  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

**Corporate Headquarters**

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

**Website**

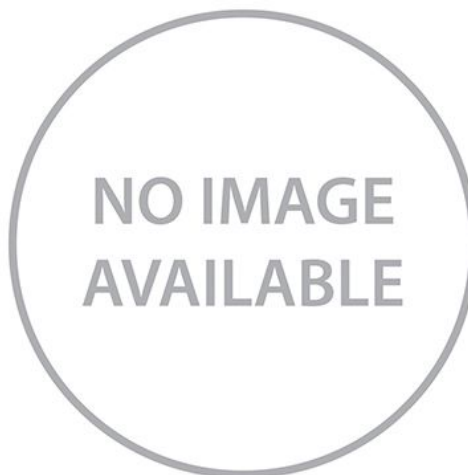
<http://www.flir.com>

**Customer support**

<http://support.flir.com>

**Disclaimer**

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description
Personal Video Recorder

**Compatible with the following products**

- 24059-250; ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II PAL
- 24059-201; ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II NTSC
- 24059-251; ThermaCAM™ GasFindIR 25 mm lens Class I Div II PAL
- 24059-200; ThermaCAM™ GasFindIR 25 mm lens Class I Div II NTSC

## P/N: 17619-200

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 17619-200  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
DR 11 NiMH Battery	
Power system	
Battery type	NiMH
Battery voltage	6 V
Battery capacity	4.2 Ah

### Compatible with the following products

- 24059-250; ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II PAL
- 24059-201; ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II NTSC
- 24059-251; ThermaCAM™ GasFindIR 25 mm lens Class I Div II PAL
- 24059-200; ThermaCAM™ GasFindIR 25 mm lens Class I Div II NTSC

**P/N: 3301011**

**Copyright**

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

**Document identity**

Publ. No.: 3301011  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

**Corporate Headquarters**

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

**Website**

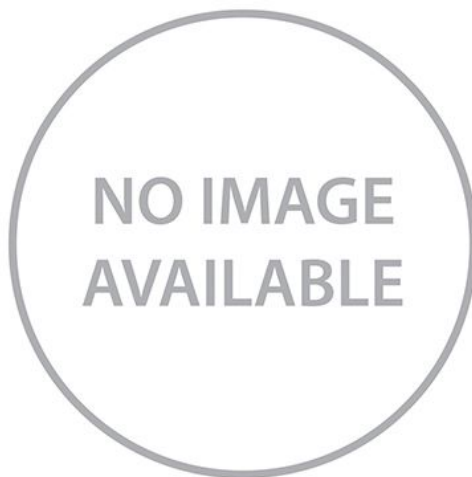
<http://www.flir.com>

**Customer support**

<http://support.flir.com>

**Disclaimer**

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Hard Transport Case	
Physical data	
Color	Black

**Compatible with the following products**

- 24059-250; ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II PAL
- 24059-201; ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II NTSC
- 24059-251; ThermaCAM™ GasFindIR 25 mm lens Class I Div II PAL
- 24059-200; ThermaCAM™ GasFindIR 25 mm lens Class I Div II NTSC

**P/N: 09289-200**

**Copyright**

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

**Document identity**

Publ. No.: 09289-200  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

**Corporate Headquarters**

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

**Website**

<http://www.flir.com>

**Customer support**

<http://support.flir.com>

**Disclaimer**

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Optical Cleaning Kit	
Shipping information	
List of contents	<ul style="list-style-type: none"><li>• Polishing cloth</li><li>• Lens brush</li><li>• Eyeglass cleaner</li><li>• Case</li></ul>

**Compatible with the following products**

- 24059-250; ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II PAL
- 24059-201; ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II NTSC
- 24059-251; ThermaCAM™ GasFindIR 25 mm lens Class I Div II PAL
- 24059-200; ThermaCAM™ GasFindIR 25 mm lens Class I Div II NTSC

## P/N: 17151-002

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 17151-002  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description
Battery Charger (NiMH)

### Compatible with the following products

- 24059-250; ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II PAL
- 24059-201; ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II NTSC
- 24059-251; ThermaCAM™ GasFindIR 25 mm lens Class I Div II PAL
- 24059-200; ThermaCAM™ GasFindIR 25 mm lens Class I Div II NTSC

## P/N: ITC-ADV-3035

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3035  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course bridges the gap between IR thermography, background science and application theory. The participant will learn fundamental concepts of heat and chemistry, to setup and to operate the GasFindIR camera, and to adjust it for environmental conditions to find gas leaks.

Lab and/or field practice in finding leaks is a key part of this class. Basic inspection procedures will be covered including equipment checkout, route planning, permitting requirements, safety practices/equipment and reporting concepts. After the course, the participant will be able to do qualified inspections on the base of existing laws, standards, and regulations.

Note 1: This course can only be booked via ITC due to the GasFindIR camera export restrictions. Please inform ITC if the customer has an MW or LW GasFindIR camera.

Note 2: This partnumber is reserved for adding additional students to a gas detection on site class.

### Content

- Introduction
- Camera set up and operation
- Thermal science fundamentals
- Heat transfer
- IR theory
- VOC absorption characteristics
- Survey and reporting
- Safety considerations

### Labs

- Hands-on and practical exercises during the afternoon of day 2.
- If possible, field work on-site inspecting real equipment, if not exercises on ITC's special tailored GasFindIR lab equipment.

**P/N: ITC-ADV-3035**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3035; r. 23306; en-US

Course information	
Available languages	English
Target group	<ul style="list-style-type: none"> <li>Qualified thermographers who want to learn more about the special application volatile gas detection within the petrochemical industry with an IR MW camera.</li> <li>Non thermographers who want to learn how to use their GasFindIR MW camera to complement or replace existing LDAR (Leak Detection And Repair) techniques in the petrochemical industry.</li> <li>Qualified thermographers who want to learn more about the special application volatile gas detection for surveillance of electrical equipment with an IR LW camera.</li> <li>Non thermographers who want to learn how to use their GasFindIR LW camera to complement or replace existing LDAR (Leak Detection And Repair) techniques.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>A person working in the petrochemical industry with surveillance and/or predictive maintenance and rather moderate knowledge on IR thermography or</li> <li>a person working with surveillance and/or predictive maintenance of electrical equipment and rather moderate knowledge on IR thermography or</li> <li>a person from another IR application field, with rather moderate knowledge about VOC gases and not too much experience of the specific GasFindIR camera.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Basic understanding and knowledge of natural sciences</li> <li>Technical background</li> </ul>

Course details	
Duration	3 days (20 hours)
Structure	Theory classes with integrated hands-on during day one and the morning of day two and three, practical labs respective exam in the afternoon of day two and three.
Exam	A final exam (30 multiple choice questions) will be written on the 3d day in the afternoon. In connection, the correct answers will be discussed by the instructor and the participants.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Attendance of 1 person</li> <li>Might include more, such as lunch, depending on location and organizing entity</li> </ul>
Note	Only for non-EURO, non-SEK, non NOK, non- £, -non CHF countries

Course organization	
ITC	The Advanced Gas Detection Course is offered worldwide by ITC subsidiaries as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary.
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Advanced Gas Detection Courses.

**Compatible with the following products**

- 44401-0201; FLIR GF300 14.5°

---

**P/N: ITC-ADV-3035**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3035; r. 23306; en-US

- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 24059-250; ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II PAL
- 24059-201; ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II NTSC
- 24059-251; ThermaCAM™ GasFindIR 25 mm lens Class I Div II PAL
- 24059-200; ThermaCAM™ GasFindIR 25 mm lens Class I Div II NTSC



## P/N: ITC-ADV-3031

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3031  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course bridges the gap between IR thermography, background science and application theory. The participant will learn fundamental concepts of heat and chemistry, to setup and to operate the GasFindIR camera, and to adjust it for environmental conditions to find gas leaks.

Lab and/or field practice in finding leaks is a key part of this class. Basic inspection procedures will be covered including equipment checkout, route planning, permitting requirements, safety practices/equipment and reporting concepts. After the course, the participant will be able to do qualified inspections on the base of existing laws, standards, and regulations.

Note: This course can only be booked via ITC due to the GasFindIR camera export restrictions. Please inform ITC if the customer has an MW or LW GasFindIR camera.

### Content

- Introduction
- Camera set up and operation
- Thermal science fundamentals
- Heat transfer
- IR theory
- VOC absorption characteristics
- Survey and reporting
- Safety considerations

### Labs

- Hands-on and practical exercises during the afternoon of day 2.
- If possible, field work on-site inspecting real equipment, if not exercises on ITC's special tailored GasFindIR lab equipment.

**P/N: ITC-ADV-3031**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3031; r. 23306; en-US

Course information	
Available languages	English
Target group	<ul style="list-style-type: none"> <li>• Qualified thermographers who want to learn more about the special application volatile gas detection within the petrochemical industry with an IR MW camera.</li> <li>• Non thermographers who want to learn how to use their GasFindIR MW camera to complement or replace existing LDAR (Leak Detection And Repair) techniques in the petrochemical industry.</li> <li>• Qualified thermographers who want to learn more about the special application volatile gas detection for surveillance of electrical equipment with an IR LW camera.</li> <li>• Non thermographers who want to learn how to use their GasFindIR LW camera to complement or replace existing LDAR (Leak Detection And Repair) techniques.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person working in the petrochemical industry with surveillance and/or predictive maintenance and rather moderate knowledge on IR thermography or</li> <li>• a person working with surveillance and/or predictive maintenance of electrical equipment and rather moderate knowledge on IR thermography or</li> <li>• a person from another IR application field, with rather moderate knowledge about VOC gases and not too much experience of the specific GasFindIR camera.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Basic understanding and knowledge of natural sciences</li> <li>• Technical background</li> </ul>
Course details	
Duration	3 days (20 hours)
Structure	Theory classes with integrated hands-on during day one and the morning of day two and three, practical labs respective exam in the afternoon of day two and three.
Exam	A final exam (30 multiple choice questions) will be written on the 3d day in the afternoon. In connection, the correct answers will be discussed by the instructor and the participants.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Attendance of 1 person</li> <li>• Might include more, such as lunch, depending on location and organizing entity</li> </ul>
Course organization	
ITC	The Advanced Gas Detection Course is offered worldwide by ITC subsidiaries as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary.
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Advanced Gas Detection Courses.

**Compatible with the following products**

- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°

---

**P/N: ITC-ADV-3031**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3031; r. 23306; en-US

- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 24059-250; ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II PAL
- 24059-201; ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II NTSC
- 24059-251; ThermaCAM™ GasFindIR 25 mm lens Class I Div II PAL
- 24059-200; ThermaCAM™ GasFindIR 25 mm lens Class I Div II NTSC

## P/N: ITC-ADV-3039

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3039  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course bridges the gap between IR thermography, background science and application theory. The participant will learn fundamental concepts of heat and chemistry, to setup and to operate the GasFindIR camera, and to adjust it for environmental conditions to find gas leaks.

Lab and/or field practice in finding leaks is a key part of this class. Basic inspection procedures will be covered including equipment checkout, route planning, permitting requirements, safety practices/equipment and reporting concepts. After the course, the participant will be able to do qualified inspections on the base of existing laws, standards, and regulations.

Note: This course can only be booked via ITC due to the GasFindIR camera export restrictions. Please inform ITC if the customer has an MW or LW GasFindIR camera.

### Content

- Introduction
- Camera set up and operation
- Thermal science fundamentals
- Heat transfer
- IR theory
- VOC absorption characteristics
- Survey and reporting
- Safety considerations

### Labs

- Hands-on and practical exercises during the afternoon of day 2.
- If possible, field work on-site inspecting real equipment, if not exercises on ITC's special tailored GasFindIR lab equipment.

**P/N: ITC-ADV-3039**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3039; r. 23306; en-US

Course information	
Available languages	English
Target group	<ul style="list-style-type: none"> <li>• Qualified thermographers who want to learn more about the special application volatile gas detection within the petrochemical industry with an IR MW camera.</li> <li>• Non thermographers who want to learn how to use their GasFindIR MW camera to complement or replace existing LDAR (Leak Detection And Repair) techniques in the petrochemical industry.</li> <li>• Qualified thermographers who want to learn more about the special application volatile gas detection for surveillance of electrical equipment with an IR LW camera.</li> <li>• Non thermographers who want to learn how to use their GasFindIR LW camera to complement or replace existing LDAR (Leak Detection And Repair) techniques.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person working in the petrochemical industry with surveillance and/or predictive maintenance and rather moderate knowledge on IR thermography or</li> <li>• a person working with surveillance and/or predictive maintenance of electrical equipment and rather moderate knowledge on IR thermography or</li> <li>• a person from another IR application field, with rather moderate knowledge about VOC gases and not too much experience of the specific GasFindIR camera.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Basic understanding and knowledge of natural sciences</li> <li>• Technical background</li> </ul>
Course details	
Duration	3 days (20 hours)
Structure	Theory classes with integrated hands-on during day one and the morning of day two and three, practical labs respective exam in the afternoon of day two and three.
Exam	A final exam (30 multiple choice questions) will be written on the 3d day in the afternoon. In connection, the correct answers will be discussed by the instructor and the participants.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Attendance of a group up to 10 persons</li> <li>• Might include more, such as lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	The Advanced Gas Detection Course is offered worldwide by ITC subsidiaries as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary.
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Advanced Gas Detection Courses.

**Compatible with the following products**

- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens

---

**P/N: ITC-ADV-3039**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3039; r. 23306; en-US

- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 24059-250; ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II PAL
- 24059-201; ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II NTSC
- 24059-251; ThermaCAM™ GasFindIR 25 mm lens Class I Div II PAL
- 24059-200; ThermaCAM™ GasFindIR 25 mm lens Class I Div II NTSC

## P/N: ITC-ADV-3036

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3036  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course bridges the gap between IR thermography, background science and application theory. The participant will learn fundamental concepts of heat and chemistry, to setup and to operate the GasFindIR/FLIR GF3xx camera, and to adjust it for environmental conditions to find gas leaks.

Lab and/or field practice in finding leaks is a key part of this class. Basic inspection procedures will be covered including equipment checkout, route planning, permitting requirements, safety practices/equipment and reporting concepts. After the course, the participant will be able to do qualified inspections on the base of existing laws, standards, and regulations.

### Content

- Introduction
- Camera set up and operation
- Thermal science fundamentals
- Heat transfer
- IR theory
- VOC absorption characteristics
- Survey and reporting
- Safety considerations

### Labs

- Hands-on and practical exercises during the afternoon of day 2.
- If possible, field work on-site inspecting real equipment, if not exercises on ITC's special tailored gas detection lab equipment.

**P/N: ITC-ADV-3036**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3036; r. 23306; en-US

Course information	
Available languages	English, French
Target group	<ul style="list-style-type: none"> <li>Qualified thermographers who want to learn more about the special application volatile gas detection within the petrochemical industry with an infrared MW camera.</li> <li>Non thermographers who want to learn how to use their GasFindIR or FLIR GF MW camera to complement or replace existing LDAR (Leak Detection And Repair) techniques in the petrochemical industry.</li> <li>Qualified thermographers who want to learn more about the special application volatile gas detection for surveillance of electrical equipment with an infrared LW camera.</li> <li>Non thermographers who want to learn how to use their GasFindIR or FLIR GF LW camera to complement or replace existing LDAR (Leak Detection And Repair) techniques.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>A person working in the petrochemical industry with surveillance and/or predictive maintenance and rather moderate knowledge on IR thermography or</li> <li>A person working with surveillance and/or predictive maintenance of electrical equipment and rather moderate knowledge on IR thermography or</li> <li>A person from another IR application field, with rather moderate knowledge about VOC gases and not too much experience of the specific GasFindIR or FLIR GF3xx camera.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Basic understanding and knowledge of natural sciences</li> <li>Technical background</li> </ul>
Course details	
Duration	3 days, additional days upon request (ITC-ADV-4006)
Structure	Theory classes with integrated hands-on during day one and the morning of day two and three, practical labs respective exam in the afternoon of day two and three.
Exam	A final exam (30 multiple choice questions) will be written on the 3d day in the afternoon. In connection, the correct answers will be discussed by the instructor and the participants.
Course fee includes	<ul style="list-style-type: none"> <li>ITC licensed instructor teaching the class</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Might include more, such as lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Note	This course can only be booked via ITC due to the GasFindIR and GF camera export restrictions. Please inform ITC if the customer has an MW or LW GasFindIR or GF camera.
Course organization	
ITC	The ITC Advanced Gas Detection Course is offered worldwide by ITC subsidiaries. Specific customer requests shall be forwarded to the closest ITC subsidiary.
ITC Trainers and Licensed Trainers	T560392 Trainers teaching courses lists all licensed trainers and ITC trainers authorized to teach the ITC Advanced Gas Detection Courses.



---

**P/N: ITC-ADV-3036**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3036; r. 23306; en-US

**Compatible with the following products**

- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 24059-250; ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II PAL
- 24059-201; ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II NTSC
- 24059-251; ThermaCAM™ GasFindIR 25 mm lens Class I Div II PAL
- 24059-200; ThermaCAM™ GasFindIR 25 mm lens Class I Div II NTSC

## P/N: ITC-ADV-4006

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-4006  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

An additional day can be booked when the customer wants to extend the training content, software exercises or guided field practice.

The fourth day can be added to the following courses:

ITC-ADV-3036

ITC-ADV-3056

### Content

- Customized, build on the topics of the course prior to the additional day

### Labs

- Customized, depending on the equipment used and the application of interest

### Course information

Available languages	English, other languages upon demand
Target group	<ul style="list-style-type: none"> <li>• Participants of advanced courses that are delivered on-site</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Persons with special interests in the equipment and their application requesting in-depth training or additional guidance.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Please refer to the pre-requisites of the course prior to the additional day</li> </ul>

### Course details

Duration	1 day
Structure	Customized upon the customer's request
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>• ITC qualified instructor teaching the class</li> <li>• Training material in printed format</li> <li>• Diploma of attendance</li> <li>• Attendance of a group up to 6 persons</li> <li>• Might include more, such as lunch, refreshments, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>

**P/N: ITC-ADV-4006**

© 2015, FLIR Systems, Inc.

#ITC-ADV-4006; r. 23306; en-US

Course organization	
ITC	Additional days are offered by the ITC or ITC partner arranging the respective standard class prior to the additional day. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Additional days are normally lectured by the same ITC trainers lecturing the standard class prior to the additional day.

**Compatible with the following products**

- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 24059-250; ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II PAL
- 24059-201; ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II NTSC
- 24059-251; ThermaCAM™ GasFindIR 25 mm lens Class I Div II PAL
- 24059-200; ThermaCAM™ GasFindIR 25 mm lens Class I Div II NTSC

## P/N: 24777-001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 24777-001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description
Battery Charger for Li Ion Battery

### Compatible with the following products

- N/A

## P/N: 24779-200

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 24779-200  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Li Ion Battery	
Power system	
Battery type	Li Ion
Battery voltage	7.5 V
Battery capacity	7.8 Ah
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009383
UPC-12	845188009915
Country of origin	Sweden

### Compatible with the following products

- N/A

# Accessories for Kxx series

---

## P/N: T198125

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198125  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Stand-alone 2-bay battery charger, including power supply with multi plugs.	
Power system	
AC operation	100–240 VAC, 50/60 Hz, 12 VDC out
Power	3000 mA at 12 VDC
Physical data	
Size (L x W x H)	133 x 86 x 51 mm (5.3 x 3.4 x 2.0 in.)
Cable length	1.98 m (6.5 ft.)
Shipping information	
List of contents	<ul style="list-style-type: none"> <li>• Stand-alone 2-bay battery charger</li> <li>• Power supply including cable</li> <li>• EU plug</li> <li>• UK plug</li> <li>• US plug</li> <li>• AU plug</li> </ul>
Packaging, weight	0.65 kg
Packaging, size	245 x 165 x 80 mm
EAN-13	7332558003497 4743254000513 (Estonia plant)
UPC-12	845188003487
Country of origin	Estonia

### Compatible with the following products

- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72201-0106; FLIR K45
- 72201-0206; FLIR K55

## P/N: T198322

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198322  
Commit: 25378  
Language: en-US  
Modified: 2015-05-06 13:44  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Power system	
Charging time	< 4 hours
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power, connector type	Screw terminal or HRS_UK60-3PT
DC operation	12/ 24 V DCnominal (11.1 - 28.0 V DC)
Power	Max 36 Watts or 3000 mA at 12 VDC (5 amps fuse)

Environmental data	
Operating temperature range	-40°C to +85°C (-40°F to +185°F)
Storage temperature range	-40°C to +85°C (-40°F to +185°F)
Relative humidity	Operational for non-condensing humidity between 5% and 95%.
EMC	<ul style="list-style-type: none"> <li>EN61000-6-3 Emission</li> <li>EN61000-6-2 Immunity</li> <li>FCC47CFR part 15 class B</li> <li>NFPA requirements</li> <li>ISO 7637-2 Road vehicles - Electrical disturbances from conduction and coupling Part 2: Electrical transient conduction along supply lines only</li> </ul>
Encapsulation	IP 20
Bump	Operational after exposed to: 5 pulses/in each axis/direction (30 total) of 30g 11 ms half sine profile
Vibration	Operational after exposed to: 4, 3g rms random profile. 8 hours in each axis.

Physical data	
Weight	1.050 kg
Size (L x W x H)	380 mm x 180 mm x 153 mm (15 in. x 7.1 in. x 6 in.)
Material	PC / ABS
Color	Grey / black

Shipping information	
List of contents	<ul style="list-style-type: none"> <li>Charger</li> <li>Documentation</li> <li>Card board box</li> </ul>
Packaging, weight	3.2 kg (7.0 lb.)
Packaging, size	435 x 245 x 167 mm (17.1 x 9.6 x 6.6 in.)
EAN-13	7332558005446 4743254001282 (Estonia plant)
UPC-12	845188005368
Country of origin	Estonia





## In-truck charger

---

### P/N: T198322

© 2015, FLIR Systems, Inc.  
#T198322; r. 25378; en-US

### Compatible with the following products

- 72201-0106; FLIR K45
- 72201-0206; FLIR K55

## P/N: T198310ACC

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198310ACC  
Commit: 23867  
Language: en-US  
Modified: 2015-03-10 13:32  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
High capacity battery for the IR camera.	
Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	3.6 V
Battery capacity	4.4 Ah, at +20°C (+68°F)
Battery note	Approximate lithium content: 1.32 g
Charging temperature	0°C to +45°C (+32°F to +113°F)
Environmental data	
Operating temperature range	-20°C to +85°C (-4°F to +185°F)
Physical data	
Weight	0.15 kg (0.3 lb.)
Size (L x W x H)	110 x 60 x 45 mm (4.3 x 2.4 x 1.8 in.)
Shipping information	
List of contents	<ul style="list-style-type: none"> <li>Battery</li> <li>Cardboard box</li> </ul>
Packaging, weight	0.25 kg (0.55 lb.)
Packaging, size	185 x 140 x 65 mm (7.3 x 5.5 x 2.6 in.)
EAN-13	7332558009246 4743254001473 (Estonia plant)
UPC-12	845188006532
Country of origin	Estonia

### Compatible with the following products

- 72201-0106; FLIR K45
- 72201-0206; FLIR K55

## P/N: T127724ACC

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T127724ACC  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Neck strap for the Kxx-series.	
Physical data	
Weight	0.075 kg (0.2 lb.)
Size (L x W x H)	Adjustable 1200 to 2000 x 30 x 12 mm (47.2 to 78.7 x 1.2 x 0.5 in.)
Material	Kevlar
Color	Black
Shipping information	
List of contents	<ul style="list-style-type: none"><li>• Neck strap</li><li>• Cardboard box</li></ul>
Packaging, weight	0.12 kg (0.27 lb.)
Packaging, size	170 x 65 x 75 mm (6.7 x 2.6 x 3.0 in.)
EAN-13	7332558009710 4743254001299 (Estonia plant)
UPC-12	845188005733
Country of origin	Estonia

### Compatible with the following products

- 72201-0106; FLIR K45
- 72201-0206; FLIR K55

## P/N: T127722ACC

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T127722ACC  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Retractable lanyard for FLIR Kxx series	
Physical data	
Weight	0.120 kg (0.3 lb.)
Size (L x W x H)	120 x 60 x 40 ( 4.7 x 2.4 x 1.6 in. )
Color	Black
Shipping information	
List of contents	<ul style="list-style-type: none"><li>Retractable lanyard</li><li>Cardboard box</li></ul>
Packaging, weight	0.17 kg (0.37 lb.)
Packaging, size	170 x 65 x 75 mm (6.7 x 2.6 x 3.0 in.)
EAN-13	7332558009727 4743254001466 (Estonia plant)
UPC-12	845188006518
Country of origin	Estonia

### Compatible with the following products

- 72201-0106; FLIR K45
- 72201-0206; FLIR K55

## P/N: T198416ACC

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198416ACC  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Strap lanyard for FLIR Kxx series.	
Physical data	
Weight	0.01 kg ( 0.22 lb.)
Size (L x W x H)	400 x 20 x 5 mm ( 15.7 x 0.8 x 0.2 )
Material	Zink
Color	Black
Shipping information	
List of contents	<ul style="list-style-type: none"><li>• Strap lanyard</li><li>• Cardboard box</li></ul>
Packaging, weight	0.063 kg (0.14 lb.)
Packaging, size	170 x 65 x 75 mm (6.7 x 2.6 x 3.0 in.)
EAN-13	7332558009734 4743254001480 (Estonia plant)
UPC-12	845188006549
Country of origin	Estonia

### Compatible with the following products

- 72201-0106; FLIR K45
- 72201-0206; FLIR K55

## P/N: T198457ACC

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198457ACC  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Tripod adapter for FLIR Kxx series. Necessary accessory to be able to mount the camera on a tripod.

### Physical data

Weight	0.13 kg ( 0.3 lb. )
Size (L × W × H)	66 × 59 × 23 mm ( 2.6 × 2.3 × 0.9 in. )
Material	Zink
Color	Black

### Shipping information

List of contents	<ul style="list-style-type: none"><li>• Tripod Adapter</li><li>• Cardboard box</li></ul>
Packaging, weight	0.18 kg (0.4 lb.)
Packaging, size	170 × 65 × 75 mm (6.7 × 2.6 × 3.0 in.)
EAN-13	7332558009741 4743254001497 (Estonia plant)
UPC-12	845188006556
Country of origin	Estonia

### Compatible with the following products

- 72201-0106; FLIR K45
- 72201-0206; FLIR K55

## P/N: T198441ACC

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198441ACC  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Rugged, watertight plastic transport case for FLIR Kxx series. Holds all items neatly and securely. The case can be locked with padlocks and features a membrane to prevent pressure build-up in airplane cargo holds.

### Physical data

Weight	2.65 kg (5.84 lb.)
Size (L × W × H)	484 × 345 × 178 mm (19.1 × 13.6 × 7.0 in.)
Material	PP with Rubber Blend (Polypropylene)
Color	Black

### Shipping information

Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	4743254001855
UPC-12	845188010164
Country of origin	Estonia

### Compatible with the following products

- 72201-0106; FLIR K45
- 72201-0206; FLIR K55

# Accessories for FLIR Ax5 series

---



## P/N: T951004ACC

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T951004ACC  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This cable is used to connect the infrared camera to Ethernet.	
Physical data	
Weight	80 g (2.8 oz.)
Cable length	2.0 m (6.6 ft.)
Connector	RJ-45 to RJ-45
Cable type	CAT-6
Shipping information	
Packaging, type	Cardboard box
Packaging, weight	130 g (4.6 oz.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558006320
UPC-12	845188006679
Country of origin	Sweden

### Compatible with the following products

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)

---

**P/N: T951004ACC**

© 2015, FLIR Systems, Inc.  
#T951004ACC; r. 23306; en-US

- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: T198349

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198349  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Adapter for connecting a tripod.	
Physical data	
Size (L x W x H)	55 x 34 x 9 mm (2.2 x 1.3 x 0.4 in.)
Color	Black
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Base support</li> <li>Four screws (plus six extra)</li> </ul>
Packaging, weight	0.112 kg (0.25 lb.)
Packaging, size	170 x 64 x 75 mm (6.7 x 2.5 x 3.0 in.)
EAN-13	7332558005897
	4743254001879 (Estonia plant)
UPC-12	845188006082
Country of origin	Sweden

### Compatible with the following products

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)

## P/N: T198348

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198348  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Cable kit consisting of three power cables (UK,EU,US).	
Physical data	
Cable length	1.5 m (4.9 ft.)
Color	Black
Shipping information	
List of contents	<ul style="list-style-type: none"><li>• Power cable, UK</li><li>• Power cable, EU</li><li>• Power cable, US</li></ul>
EAN-13	7332558009475 4743254001848 (Estonia plant)
UPC-12	845188010058
Country of origin	Sweden

### Compatible with the following products

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)

## P/N: T911112

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T911112  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Power supply, power over Ethernet (PoE) injector.	
Power system	
AC operation	Input: 100–240 V, 50–60 Hz
DC operation	Output: 48 VDC
Power	15.4 W
Physical data	
Size (L × W × H)	145 × 61 × 40 mm (5.7 × 2.4 × 1.6 in.)
Color	Black
Shipping information	
List of contents	• Power over Ethernet (PoE) injector
EAN-13	7332558008669 4743254001770 (Estonia plant)
UPC-12	845188009182
Country of origin	Sweden

### Compatible with the following products

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)

**P/N: T198371**

**Copyright**

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

**Document identity**

Publ. No.: T198371  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

**Corporate Headquarters**

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

**Website**

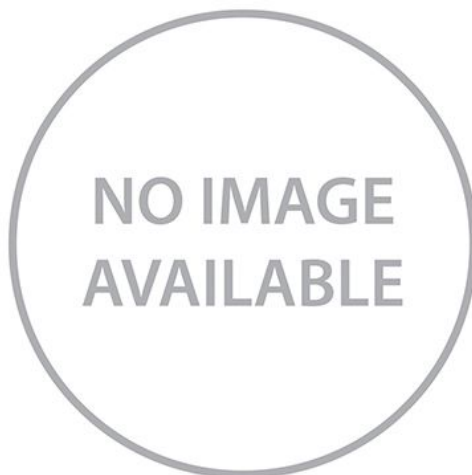
<http://www.flir.com>

**Customer support**

<http://support.flir.com>

**Disclaimer**

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Rugged, watertight plastic shipping case for FLIR Ax5 SC kit series. Holds all items neatly and securely. The case can be locked with padlocks and features a membrane to prevent pressure build-up in airplane cargo holds.	
Physical data	
Color	Black
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009673 4743254001862 (Estonia plant)
UPC-12	845188010256
Country of origin	Sweden

**Compatible with the following products**

- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0102; FLIR A5 f=5 mm with SC kit

## P/N: T198392

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198392  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Table stand kit for the FLIR Ax5 series. The kit consists of a base support and a gooseneck.	
Physical data	
Weight	2.04 kg (4.49 lb.)
Size (L x D)	<ul style="list-style-type: none"> <li>Length of gooseneck: 0.4 m (1.3 ft.)</li> <li>Base: Ø 0.13 m (0.43 ft.); thickness: 0.05 m (0.17 ft.)</li> </ul>
Color	Black
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Base support</li> <li>Gooseneck</li> </ul>
Packaging, weight	2.366 kg (5.2 lb.)
Packaging, size	303 x 206 x 127 mm (12.0 x 8.1 x 5.0 in.)
EAN-13	7332558006122 4743254001886 (Estonia plant)
UPC-12	845188006426
Country of origin	Sweden

### Compatible with the following products

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit



## Table stand kit

---

### P/N: T198392

© 2015, FLIR Systems, Inc.  
#T198392; r. 23306; en-US

- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)



## P/N: T911183

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T911183  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Power supply, power over Ethernet (PoE) injector incl. multi plugs.	
Power system	
AC operation	Input: 100–240 V, 50–60 Hz
DC operation	Output: 56 VDC
Power	15.4 W
Physical data	
Size (L × W × H)	86 × 50 × 33 mm (3.4 × 2.0 × 1.3 in.)
Color	Black
Shipping information	
List of contents	<ul style="list-style-type: none"> <li>PoE injector</li> <li>EU plug</li> <li>UK plug</li> <li>US plug</li> <li>AU plug</li> </ul>
EAN-13	7332558008683 4743254001787 (Estonia plant)
UPC-12	845188009205
Country of origin	Sweden

### Compatible with the following products

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)

## P/N: T127605ACC

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T127605ACC  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Cable to access signals in M12 connector, pigtail.	
Physical data	
Cable length	3 m (9.8 ft.)
Connector	M12 to pigtail
Color	Black
Shipping information	
Packaging, type	Cardboard box
List of contents	• Cable
Packaging, weight	416 g (14.7 oz.)
Packaging, size	243 × 165 × 82 mm (9.6 × 6.5 × 3.2 in.)
EAN-13	7332558006344
UPC-12	845188006693
Country of origin	Sweden

### Compatible with the following products

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)

## P/N: T127606ACC

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T127606ACC  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Cable to synchronize two cameras, M12 connectors in both ends.	
Physical data	
Cable length	2 m (6.6 ft.)
Connector	M12 to M12
Color	Black
Shipping information	
Packaging, type	Cardboard box
List of contents	• Cable
Packaging, weight	252 g (8.9 oz.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558006351
UPC-12	845188006709
Country of origin	Sweden

### Compatible with the following products

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)

## P/N: T198342ACC

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198342ACC  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Focus adjustment tool	
Physical data	
Size (L × D)	12 × 38 mm (0.47 × 1.50 in.)
Color	Blue
Shipping information	
Packaging, type	Cardboard box
List of contents	• Focus adjustment tool
Packaging, weight	72 g (2.5 oz.)
Packaging, size	170 × 64 × 75 mm (6.69 × 2.52 × 2.95 in.)
EAN-13	7332558006368
UPC-12	845188006716
Country of origin	Sweden

### Compatible with the following products

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)

## P/N: T198584

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198584  
Commit: 25122  
Language: en-US  
Modified: 2015-04-29 09:51  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
FLIR Tools is a software suite specifically designed to provide an easy way to update your camera and create inspection reports.	
Key features:	
<ul style="list-style-type: none"> <li>Report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR).</li> <li>Manual IR/Visual Image Grouping</li> <li>Import images from your camera to your computer.</li> <li>Apply filters when searching for images.</li> <li>Search all text in images and text annotations.</li> <li>Store the five latest search criteria's.</li> <li>Lay out, move, and resize measurement tools on any infrared image.</li> <li>Create PDF imagesheets of any images of your choice.</li> <li>Add headers, footers, and logos to imagesheets.</li> <li>Create PDF reports for images of your choice.</li> <li>Add headers, footers, and logos to reports.</li> <li>Report editor (report page preview and snap to grid).</li> <li>Sort function (by date, groups sorted by path, and groups sorted by date).</li> <li>Browse and purchase infrared cameras, software, and accessories in the webshop.</li> <li>Software localized to 21 languages.</li> <li>Support for MSX (Multi-Spectral Dynamic Imaging ) Images</li> <li>Support for Sketch Images on both IR and Visual with toggling ON/OFF feature.</li> <li>Support for Same FOV ( Field of View Match )</li> <li>Display of Compass Information in Edit and in Report.</li> <li>Display of GPS Information in Edit and in Report.</li> <li>Microsoft Windows 7 (32- and 64-bit) and Windows 8 (32- and 64-bit)</li> <li>Camera update (applies to FLIR Ex, Kxx, Exx and T6xx series only).</li> </ul>	
Download	
This software is a freeware. To download, click the following link:	
<a href="http://support.flir.com/tools">http://support.flir.com/tools</a>	
Release notes	
Version	5.2
New features in version 5.2	<ul style="list-style-type: none"> <li>Support for auto-adjusting a region.</li> <li>Support for zoom.</li> <li>Various bug fixes.</li> </ul>
New features in version 5.1	<ul style="list-style-type: none"> <li>Improved import performance.</li> <li>Added support for video recording settings for FLIR Kxx series.</li> <li>Added support for importing video files from FLIR Kxx series.</li> <li>Added support for FLIR C2 camera.</li> <li>Various bug fixes.</li> </ul>

**P/N: T198584**

© 2015, FLIR Systems, Inc.  
#T198584; r. 25122; en-US

Release notes	
New features in version 5.0	<ul style="list-style-type: none"> <li>Local object parameters for measurement tools.</li> <li>Save a report in-process with the ability to edit at a later time.</li> <li>Pull-down menus for text annotations.</li> <li>Variable playback speed for recordings.</li> <li>Show or hide min./max./avg. temperature, and hot/cold markers, for areas and lines.</li> <li>Smoother display for low-resolution images.</li> <li>UltraMax image enhancement.</li> <li>Dropping support for Windows XP.</li> <li>Various bug fixes.</li> </ul>
New features in version 4.1	<ul style="list-style-type: none"> <li>Previous/next in Edit mode.</li> <li>Clone in the Library.</li> <li>Extract visual photo from a multispectral image.</li> <li>Import *.mp4, *.seq, and *.csq files from the camera.</li> <li>Playback/edit *.seq and *.csq files.</li> <li>Scale enhancement for the FLIR GF3xx series.</li> <li>Auto resize of thumbnails during importing for the FLIR T6xx series.</li> <li>Grouping/ungrouping now added.</li> <li>Various bug fixes.</li> </ul>
New features in version 4.0	<ul style="list-style-type: none"> <li>Support for the new FLIR Ex and Exx series cameras.</li> <li>Interactive quick start guide when connecting a FLIR camera.</li> <li>Improved library view.</li> <li>Support for multispectral images.</li> <li>Support for auto-oriented images.</li> <li>Various bug fixes.</li> </ul>
New features in version 3.1	<ul style="list-style-type: none"> <li>Support for FLIR K series cameras.</li> <li>Interactive quick start guide when connecting a FLIR K series camera.</li> <li>Live image streaming from FLIR K series cameras.</li> <li>PC-side configuration of FLIR K series cameras.</li> <li>New report templates for DC images only added.</li> <li>Various bug fixes.</li> </ul>
New features in version 3.0	<ul style="list-style-type: none"> <li>Add folder to library.</li> <li>Support for isotherms and color alarms</li> <li>Image description for both IR and DC.</li> <li>Export functionality (*.avi, *.csv).</li> <li>Microsoft Windows 8 (32- and 64-bit)</li> <li>New web installer</li> <li>Various bug fixes.</li> </ul>
New features in version 2.2	<ul style="list-style-type: none"> <li>Camera tab: <ul style="list-style-type: none"> <li>Logging feature in Camera Tab</li> <li>Recording and playback of SEQ files.</li> </ul> </li> <li>Various bug fixes.</li> </ul>
New features in version 2.1	<ul style="list-style-type: none"> <li>New Text Comment Template Tab: <ul style="list-style-type: none"> <li>Create, Edit and Transfer templates to and from any FLIR Camera.</li> <li>Import and Export of Templates.</li> </ul> </li> <li>Support for MSX (Multi-Spectral Dynamic Imaging ) Images</li> <li>Support for Sketch Images on both IR and Visual with toggling ON/OFF feature.</li> <li>Support for Same FOV ( Field of View Match )</li> <li>Display of Compass Information in Edit and in Report.</li> <li>Display of GPS Information in Edit and in Report. <ul style="list-style-type: none"> <li>Direct Link to Google Maps for GPS Tagged images from Report.</li> </ul> </li> <li>Support for 3x5 and 6x5 A-series cameras</li> </ul>

**P/N: T198584**

© 2015, FLIR Systems, Inc.  
#T198584; r. 25122; en-US

Release notes	
New features in version 2.0	<ul style="list-style-type: none"> <li>Camera tab: <ul style="list-style-type: none"> <li>Camera connection with FLIR UVC cameras.</li> <li>Measurement data analysis.</li> <li>Plotting.</li> <li>Snapshot saving with text annotation and plot.</li> </ul> </li> <li>Performance improvement for large reports: can now create reports and imagesheets of up to 200 pages.</li> <li>Various bug fixes.</li> </ul>
New features in version 1.3	<ul style="list-style-type: none"> <li>Import from ix series cameras.</li> <li>Add and remove a form from a group.</li> <li>Text comments are now saved in the infrared image.</li> <li>The indexing engine can create groups from IR, DC, and text annotations when indexing the paths in the watch folder.</li> <li>Arrow tool in the report toolbar.</li> <li>Reorder pages.</li> <li>Text annotations can now be edited in the report.</li> <li>New report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR).</li> <li>New sample images.</li> </ul>
New features in version 1.2 SP1	<ul style="list-style-type: none"> <li>Various bug fixes.</li> </ul>
New features in version 1.2	<ul style="list-style-type: none"> <li>Search function: <ul style="list-style-type: none"> <li>Store the five latest search criterias.</li> <li>Search in all texts in images and text annotations.</li> </ul> </li> <li>Sort function: <ul style="list-style-type: none"> <li>By date.</li> <li>Groups sorted by by path.</li> <li>Groups sorted by date.</li> </ul> </li> <li>Report editor: <ul style="list-style-type: none"> <li>Report page preview.</li> <li>Snap to grid.</li> <li>Various bug fixes.</li> </ul> </li> </ul>
New features in version 1.1 SP1	<ul style="list-style-type: none"> <li>Extension to the camera update functionality.</li> <li>Various bug fixes</li> </ul>
New features in version 1.1	<ul style="list-style-type: none"> <li>Software localized to 21 languages.</li> <li>Camera update. (Exx, T6xx)</li> <li>Option to rotate an infrared image in the infrared editor.</li> </ul>

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Digital download, or</li> <li>CD-ROM</li> </ul>
Packaging, weight	0.106 kg (0.23 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005279
UPC-12	845188005481
Country of origin	Sweden

System requirements	
Operating system	<ul style="list-style-type: none"> <li>Windows XP, 32-bit</li> <li>Windows Vista, 32-bit</li> <li>Windows 7, 32-bit</li> <li>Windows 7, 64-bit</li> <li>Windows 8, 32-bit</li> <li>Windows 8, 64-bit</li> </ul>

**P/N: T198584**

© 2015, FLIR Systems, Inc.  
#T198584; r. 25122; en-US

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm



**P/N: T198584**

© 2015, FLIR Systems, Inc.  
#T198584; r. 25122; en-US

- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

**P/N: T198584**

© 2015, FLIR Systems, Inc.  
#T198584; r. 25122; en-US

- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72001-0101; FLIR C2

**P/N: T198583**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: T198583  
Commit: 25121  
Language: en-US  
Modified: 2015-04-29 09:50  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

Compared to FLIR Tools, FLIR Tools+ has the following features:

- Radiometric Panorama incl. MSX
- Radiometric IR Video Recording
- Advanced Reporting

FLIR Tools/Tools+ is a software suite specifically designed to provide an easy way to update your camera and create inspection reports.

FLIR Tools+ main features:

- Manual IR/Visual Image Grouping
- Radiometric Panorama incl. MSX
- Radiometric IR Video Recording
- Advanced Reporting - Microsoft Office 2007 (32bit), and 2010 (32bit) support
- Report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR).
- Import images from your camera to your computer.
- Apply filters when searching for images.
- Search all text in images and text annotations.
- Store the five latest search criteria's.
- Lay out, move, and resize measurement tools on any infrared image.
- Create PDF imagesheets of any images of your choice.
- Add headers, footers, and logos to imagesheets.
- Create PDF reports for images of your choice.
- Add headers, footers, and logos to reports.
- Report editor (report page preview and snap to grid).
- Sort function (by date, groups sorted by path, and groups sorted by date).
- Browse and purchase infrared cameras, software, and accessories in the webshop.
- Software localized to 21 languages.
- Support for MSX (Multi-Spectral Dynamic Imaging ) Images
- Support for Sketch Images on both IR and Visual with toggling ON/OFF feature.
- Support for Same FOV ( Field of View Match )
- Display of Compass Information in Edit and in Report.
- Display of GPS Information in Edit and in Report.
- Microsoft Windows 7 (32- and 64-bit) and Windows 8 (32- and 64-bit)
- Camera update (applies to FLIR Ex, Kxx, Exx and T6xx series only).

## Download

Download a 30-day evaluation version here:

<http://support.flir.com/toolsplus>

## Release notes

Version	5.2
New features in version 5.2	<ul style="list-style-type: none"> <li>• Support for auto-adjusting a region.</li> <li>• Support for zoom.</li> <li>• Express Microsoft Word reporting (*.docx).</li> <li>• Various bug fixes.</li> </ul>

**P/N: T198583**

© 2015, FLIR Systems, Inc.  
#T198583; r. 25121; en-US

Release notes	
New features in version 5.1	<ul style="list-style-type: none"> <li>Improved import performance.</li> <li>Added support for video recording settings for FLIR Kxx series.</li> <li>Added support for importing video files from FLIR Kxx series.</li> <li>Added support for FLIR C2 camera.</li> <li>Various bug fixes.</li> </ul>
New features in version 5.0	<ul style="list-style-type: none"> <li>Local object parameters for measurement tools.</li> <li>Save a report in-process with the ability to edit at a later time.</li> <li>Pull-down menus for text annotations.</li> <li>Variable playback speed for recordings.</li> <li>Show or hide min./max./avg. temperature, and hot/cold markers, for areas and lines.</li> <li>Smoother display for low-resolution images.</li> <li>UltraMax image enhancement.</li> <li>Dropping support for Windows XP.</li> <li>Various bug fixes.</li> </ul>
New features in version 4.1	<ul style="list-style-type: none"> <li>Previous/next in Edit mode.</li> <li>Clone in the Library.</li> <li>Extract visual photo from a multispectral image.</li> <li>Import *.mp4, *.seq, and *.csq files from the camera.</li> <li>Playback/edit *.seq and *.csq files.</li> <li>Scale enhancement for the FLIR GF3xx series.</li> <li>Auto resize of thumbnails during importing for the FLIR T6xx series.</li> <li>Grouping/ungrouping now added.</li> <li>Various bug fixes.</li> </ul>
New features in version 4.0	<ul style="list-style-type: none"> <li>Support for the new FLIR Ex and Exx series cameras.</li> <li>Interactive quick start guide when connecting a FLIR camera.</li> <li>Improved library view.</li> <li>Support for multispectral images.</li> <li>Support for auto-oriented images.</li> <li>Various bug fixes.</li> </ul>
New features in version 3.1	<ul style="list-style-type: none"> <li>Support for FLIR K series cameras.</li> <li>Interactive quick start guide when connecting a FLIR K series camera.</li> <li>Live image streaming from FLIR K series cameras.</li> <li>PC-side configuration of FLIR K series cameras.</li> <li>New report templates for DC images only added.</li> <li>Various bug fixes.</li> </ul>
New features in version 3.0	<ul style="list-style-type: none"> <li>Add folder to library.</li> <li>Support for isotherms and color alarms</li> <li>Image description for both IR and DC.</li> <li>Export functionality (*.avi, *.csv).</li> <li>Microsoft Windows 8 (32- and 64-bit)</li> <li>New web installer</li> <li>Radiometric panorama with MSX images.</li> <li>Advanced reports.</li> <li>Manual grouping/ungrouping of images.</li> <li>Various bug fixes.</li> </ul>
New features in version 2.2	<ul style="list-style-type: none"> <li>Camera tab: <ul style="list-style-type: none"> <li>Logging feature in Camera Tab</li> <li>Recording and playback of SEQ files.</li> </ul> </li> <li>Various bug fixes.</li> </ul>
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>FLIR Tools+ scratchcard</li> </ul>
Packaging, weight	0.059 kg (0.13 lb.)

**P/N: T198583**

© 2015, FLIR Systems, Inc.  
#T198583; r. 25121; en-US

Shipping information	
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	73325585378 4743254001442 (Estonia plant)
UPC-12	845188005580
Country of origin	Sweden
System requirements	
Operating system	<ul style="list-style-type: none"> <li>Windows XP, 32-bit</li> <li>Windows Vista, 32-bit</li> <li>Windows 7, 32-bit</li> <li>Windows 7, 64-bit</li> <li>Windows 8, 32-bit</li> <li>Windows 8, 64-bit</li> </ul>
Software requirements	<ul style="list-style-type: none"> <li>Office 2007, 32-bit</li> <li>Office 2010, 32-bit</li> <li>Office 2013, 32-bit</li> </ul>

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)

**P/N: T198583**

© 2015, FLIR Systems, Inc.  
#T198583; r. 25121; en-US

- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens

**P/N: T198583**

© 2015, FLIR Systems, Inc.  
#T198583; r. 25121; en-US

- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 63901-0101; FLIR E4
- 63905-0501; FLIR E5
- 63902-0202; FLIR E6
- 63903-0303; FLIR E8

## P/N: DSW-10000

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: DSW-10000  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

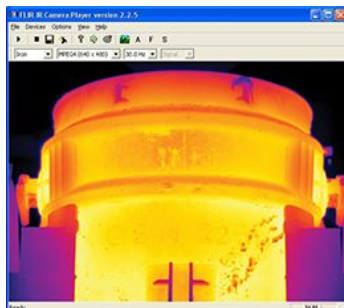
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

FLIR IR Camera Player is a PC-based remote control and viewer that you can use with cameras from FLIR Systems.

You can perform one or more of the following with FLIR IR Camera Player:

- Record a video stream from the camera.
- Save a frame from the video stream as a snapshot image (\*.bmp).
- Autofocus, focus far, and focus near.
- Autoadjust the camera image.
- Freeze the camera image.
- Save a camera image in the camera.
- Change Color palette.
- Add an image description and a text comment to an image.

You connect a camera in one of the following ways:

- Ethernet
- FireWire
- USB

### Download

This software is a freeware. To download, click the following link:

<http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=89>

### Release notes

Version	2.3.3
New features	<p>Main improvements in version 2.3.3:</p> <ul style="list-style-type: none"> <li>• Added latest device drivers (1.9.1.0).</li> <li>• Various bugfixes</li> </ul> <p>Main improvements in version 2.2.7:</p> <ul style="list-style-type: none"> <li>• Added support for FLIR Ax5 series.</li> </ul>

### System requirements

Operating system	<ul style="list-style-type: none"> <li>• Windows XP, 32-bit</li> <li>• Windows Vista, 32-bit/64-bit</li> <li>• Windows 7, 32-bit/64-bit</li> </ul>
------------------	--

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)



**P/N: DSW-10000**

© 2015, FLIR Systems, Inc.  
#DSW-10000; r. 24597; en-US

- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc

**P/N: DSW-10000**

© 2015, FLIR Systems, Inc.  
#DSW-10000; r. 24597; en-US

- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)



---

**P/N: DSW-10000**

© 2015, FLIR Systems, Inc.  
#DSW-10000; r. 24597; en-US

- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: ITC-ADV-3021

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3021  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This interdisciplinary course bridges the gap between IR thermography, background science and application theory. Being an overview course it deals with three main application fields of thermography: electrical, industrial, and building. For every application the participant will learn about the specific theory, typical faults, and how to detect them with a thermography camera. The student will also learn about the basics of condition monitoring, and maintenance.

Examples and case studies from the real world illustrate the course content and are discussed with the participants. Participants will be trained in discovering and identifying typical faults by typical thermal patterns.

### Content

- Introduction
- Electrical Applications (current, voltage, resistance, electrical systems, Ohm's law, some important properties of materials, typical faults, surveying methodology and criteria, safety, voltage limits)
- Industrial Applications (bearings, pumps, gears, belts, misalignment and couplings, gaskets, seals, rings, glands, steam traps, furnaces)
- Building Applications (definition of the building envelope, steady state thermal transfer in a building envelope, transient thermal transfer in a building envelope, applications)

### Course information

Available languages	
English	
Target group	<ul style="list-style-type: none"> <li>• Professional thermographers holding a Level 1 or a Level 2 certificate and</li> <li>• with interest in increasing their knowledge of different thermographic applications, and their limitations or</li> <li>• with a special interest in condition monitoring of machines</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Knows how to operate the camera</li> <li>• Knows how to report</li> <li>• Works in the industry with e.g. maintenance and condition monitoring or is a consultant</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Valid Level 1 thermography certificate</li> <li>• IR related education and experience</li> </ul>

**P/N: ITC-ADV-3021**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3021; r. 23306; en-US

Course details	
Duration	3 days (24 hours)
Structure	The course is divided into the three parts: Electrical Applications, Industrial Applications, and Building Applications. Theory sessions and case studies including interactive discussions alternate.
Exam	A final exam (30 multiple choice questions) will be written on the 3d day in the afternoon. In connection, the correct answers will be discussed by the instructor and the participants.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Attendance of 1 person</li> <li>• Might include more, such as lunch, depending on location and organizing entity</li> </ul>
Course organization	
ITC	The Advanced General Thermography Course is offered worldwide by ITC as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary.
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Advanced General Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)

**P/N: ITC-ADV-3021**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3021; r. 23306; en-US

- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC

---

**P/N: ITC-ADV-3021**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3021; r. 23306; en-US

- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-ADV-3029

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3029  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This interdisciplinary course bridges the gap between IR thermography, background science and application theory. Being an overview course it deals with three main application fields of thermography: electrical, industrial, and building. For every application the participant will learn about the specific theory, typical faults, and how to detect them with a thermography camera. The student will also learn about the basics of condition monitoring, and maintenance.

Examples and case studies from the real world illustrate the course content and are discussed with the participants. Participants will be trained in discovering and identifying typical faults by typical thermal patterns.

### Content

- Introduction
- Electrical Applications (current, voltage, resistance, electrical systems, Ohm's law, some important properties of materials, typical faults, surveying methodology and criteria, safety, voltage limits)
- Industrial Applications (bearings, pumps, gears, belts, misalignment and couplings, gaskets, seals, rings, glands, steam traps, furnaces)
- Building Applications (definition of the building envelope, steady state thermal transfer in a building envelope, transient thermal transfer in a building envelope, applications)

### Course information

Available languages	
English	
Target group	
<ul style="list-style-type: none"> <li>• Professional thermographers holding a Level 1 or a Level 2 certificate and</li> <li>• with interest in increasing their knowledge of different thermographic applications, and their limitations or</li> <li>• with a special interest in condition monitoring of machines</li> </ul>	
Typical student	
<ul style="list-style-type: none"> <li>• Knows how to operate the camera</li> <li>• Knows how to report</li> <li>• Works in the industry with e.g. maintenance and condition monitoring or is a consultant</li> </ul>	
Pre-requisites	
<ul style="list-style-type: none"> <li>• Valid Level 1 thermography certificate</li> <li>• IR related education and experience</li> </ul>	



**P/N: ITC-ADV-3029**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3029; r. 23306; en-US

Course details	
Duration	3 days (24 hours)
Structure	The course is divided into the three parts: Electrical Applications, Industrial Applications, and Building Applications. Theory sessions and case studies including interactive discussions alternate.
Exam	A final exam (30 multiple choice questions) will be written on the 3d day in the afternoon. In connection, the correct answers will be discussed by the instructor and the participants.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Attendance of a group up to 10 persons</li> <li>• Might include more, such as lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	The Advanced General Thermography Course is offered worldwide by ITC as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary.
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Advanced General Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)

**P/N: ITC-ADV-3029**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3029; r. 23306; en-US

- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL

---

**P/N: ITC-ADV-3029**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3029; r. 23306; en-US

- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-CON-1001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CON-1001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

ITC conference fee

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-CON-1001**

© 2015, FLIR Systems, Inc.

#ITC-CON-1001; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-CON-1001**

© 2015, FLIR Systems, Inc.

#ITC-CON-1001; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-EXP-1041

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1041  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This is a special day emphasizing on specifications of equipment towards the particularities of applications (for instance triggering or high speed). It addresses mainly the needs of high-end camera users in the scientific or industrial fields.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, French, other languages upon request
Target group	<ul style="list-style-type: none"> <li>Highly specialized users with advanced and scientific applications as well as persons interested in these applications and related infrared equipment.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Researchers</li> <li>Scientists</li> <li>University students</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Basic knowledge about thermography and related parameters.</li> <li>Experience in measurement techniques and general software skills.</li> </ul>
Course details	
Duration	Typically 1 day
Structure	Theory and hands-on, depending on topics
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material</li> <li>Diploma of attendance</li> </ul>
Note	This course is typically organized at the customer's site. Course fee does not include cost for instructor's travelling or lodging. The customer is responsible for providing a suitable classroom and preferably also refreshments/lunch.

**P/N: ITC-EXP-1041**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1041; r. 23306; en-US

Course organization	
ITC	ITC customized workshops are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	ITC customized workshops are lectured by ITC qualified specialists having the relevant expertise in the workshop's subject and the related fields of application.

**Compatible with the following products**

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC



**P/N: ITC-EXP-1041**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1041; r. 23306; en-US

- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

## P/N: ITC-EXP-1050

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1050  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Consultancy can be described as any action or arrangement that is not strictly a training course. Most likely, a thermal camera will be involved. It can be, but is not restricted to:

- Pre-sales equipment or software demonstration over the normal extend
- Equipment and software demonstration and explanation over the normal extend
- Advanced technical support
- Application support
- Comparative study involving a camera, either alone or in conjunction with other instruments
- General measurements in a difficult or unusual situation

### Content

- Customized

### Labs

- Customized

### Course information

Available languages	English, French, other languages upon request
Target group	<ul style="list-style-type: none"> <li>• Advanced users who wish to receive an in-depth guidance to complex problems related to infrared equipment, applications, and measurement questions.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Industry technical personnel</li> <li>• Researchers</li> <li>• Scientists</li> <li>• University students</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic knowledge about thermography and related parameters.</li> <li>• Experience in measurement techniques and general software skills.</li> </ul>

### Course details

Duration	Typically 1 day
Structure	Theory and hands-on, depending on topics

**P/N: ITC-EXP-1050**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1050; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Consultancy by qualified ITC specialist</li> <li>Training and/or reference material</li> </ul>
Note	Consultancy is typically carried out at the customer's site. The fee does not include costs for instructor's travelling or lodging. The customer is responsible for providing access to the equipment or objects that should be analyzed or measured, a suitable meeting room, and preferably also refreshments/lunch.
Course organization	
ITC	ITC consultancy is offered by ITC in EMEA. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	ITC consultancy is delivered by ITC qualified specialists having the relevant expertise in infrared measurement and the related fields of application.

**Compatible with the following products**

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°

**P/N: ITC-EXP-1050**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1050; r. 23306; en-US

- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

## P/N: ITC-EXP-1021

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1021  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

An on-site training can be customized upon your needs. The participants will learn about IR thermography, inspections, measurements, applications, and reporting corresponding to the level needed for performing measurements and inspection in their working environment. The trainer will give useful advice on how to best implement IR thermography in your business.

This partnumber is reserved for adding additional students to an on site class.

### Content

- An on-site course can be any course, from a 1-day introduction to general thermography, over a customized application course to a complete certification course.

### Labs

- Portable classroom labs
- Field training on the site in agreement with the customer

### Course information

Available languages	English, Dutch, German, French, Italian, Spanish, Swedish, other languages upon request
Target group	<ul style="list-style-type: none"> <li>• Employees of a company or certain departments who would like to minimize travel costs and receive the training directly on their daily working site.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>

### Course details

Duration	Customized or according to the kind of course the in-house training is equivalent to.
Structure	Theory, camera handling, demos, practical labs and field training alternate.

**P/N: ITC-EXP-1021**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1021; r. 23306; en-US

Course details	
Exam	Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> </ul>
Course organization	
ITC	ITC In-house courses are offered worldwide by ITC and partners as listed. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	ITC In-house courses are lectured by ITC qualified instructors with experience in the relevant fields of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm

**P/N: ITC-EXP-1021**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1021; r. 23306; en-US

- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°

**P/N: ITC-EXP-1021**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1021; r. 23306; en-US

- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display



## P/N: ITC-EXP-1029

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1029  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
An on-site training can be customized upon your needs. The participants will learn about IR thermography, inspections, measurements, applications, and reporting corresponding to the level needed for performing measurements and inspection in their working environment. The trainer will give useful advice on how to best implement IR thermography in your business.	
Content	
<ul style="list-style-type: none"> <li>An on-site course can be any course, from a 1-day introduction to general thermography, over a customized application course to a complete certification course.</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Portable classroom labs</li> <li>Field training on the site in agreement with the customer</li> </ul>	
Course information	
Available languages	English, Dutch, German, French, Italian, Spanish, Swedish, other languages upon request
Target group	<ul style="list-style-type: none"> <li>Employees of a company or certain departments who would like to minimize travel costs and receive the training directly on their daily working site.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>
Course details	
Duration	Customized or according to the kind of course the in-house training is equivalent to.
Structure	Theory, camera handling, demos, practical labs and field training alternate.
Exam	Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.

**P/N: ITC-EXP-1029**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1029; r. 23306; en-US

Course details	
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by qualified ITC instructor</li> <li>• Training material in printed format</li> <li>• Diploma of attendance</li> <li>• Attendance of a group up to 10 persons</li> </ul>
Note	Course fee does not include cost for instructor's travelling or lodging. When organized at the customers' site, the customer is responsible for providing a suitable classroom and preferably also refreshments/lunch.
Course organization	
ITC	ITC In-house courses are offered worldwide by ITC and partners as listed. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	ITC In-house courses are lectured by ITC qualified instructors with experience in the relevant fields of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)

**P/N: ITC-EXP-1029**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1029; r. 23306; en-US

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL

**P/N: ITC-EXP-1029**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1029; r. 23306; en-US

- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-CER-5105

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5105  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 1 certified thermographer. The participant will learn about the basics of infrared, how to operate the camera under different conditions and for various purposes, how to do an appropriate judgement of the measurement situation in the field and how to identify potential error sources. After the class, the participant will be able to do IR inspections following written guidelines and to report the result of this inspection.

This partnumber is reserved for adding additional students to a level 1 on site class.

### Content

- Introduction to Thermography
- Camera Operation
- Basic physics of heat
- Basic physics of infrared
- Thermal pattern recognition and IR applications
- IR temperature measurement techniques
- Qualitative and quantitative thermography
- Inspection routines and reporting

### Student presentations

During the seminar, students will generate a small case study based on the lab exercises to be presented to the class.

### Labs

- Camera handling
- Level and Span
- Conduction pattern
- Forced convection
- Direct and indirect thermal measurement
- Thermal capacity
- Steady state and transient heat flow
- Evaporation and condensation
- Electrical application
- Emissivity and Reflected apparent temperature
- Spatial resolution
- Location and temperature measurement of a hot/cold spot
- Image transfer to the computer

**P/N: ITC-CER-5105**

© 2015, FLIR Systems, Inc.

#ITC-CER-5105; r. 23306; en-US

Course information	
Available languages	Chinese, Danish, Dutch, English, Finish, French, German, Greek, Hebrew, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (bra.), Romanian, Russian, Serbo-Croatian, Spanish, Swedish, Thai
Target group	<ul style="list-style-type: none"> <li>• Practical user</li> <li>• This course is designed for beginners in thermography with some experience in camera handling and limited IR knowledge, who want to take their first step to become a professional thermographer and want to qualify as a Level 1 certified thermographer.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>• having already some basic experience with IR thermography,</li> <li>• knowing the basic functions of the camera,</li> <li>• who wants to become a certified thermographer in order to gain a competitive advantage or who needs the certifications because of legal reasons or company internal regulations.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Be familiar with the basic operation of an infrared camera</li> <li>• Have the recommended experience within thermography according to relevant standards</li> </ul>

Course details	
Duration	35 – 40 hours
Structure	Theory and camera practice (hands-on) alternate every day, additional labs and software exercises at some days.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>• Attendance of 1 person</li> <li>• Might include more, such as lunch, depending on location and organizing entity</li> </ul>
Note	Only for non-EURO, non-SEK, non NOK, non- £, -non CHF countries

Course organization	
ITC	The Level 1 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)

**P/N: ITC-CER-5105**

© 2015, FLIR Systems, Inc.

#ITC-CER-5105; r. 23306; en-US

- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc

**P/N: ITC-CER-5105**

© 2015, FLIR Systems, Inc.

#ITC-CER-5105; r. 23306; en-US

- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display



## P/N: ITC-CER-5101

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5101  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 1 certified thermographer. The participant will learn about the basics of infrared, how to operate the camera under different conditions and for various purposes, how to do an appropriate judgement of the measurement situation in the field and how to identify potential error sources. After the class, the participant will be able to do IR inspections following written guidelines and to report the result of this inspection.

### Content

- Introduction to Thermography
- Camera Operation
- Basic physics of heat
- Basic physics of infrared
- Thermal pattern recognition and IR applications
- IR temperature measurement techniques
- Qualitative and quantitative thermography
- Inspection routines and reporting

### Student presentations

During the seminar, students will generate a small case study based on the lab exercises to be presented to the class.

### Labs

- Camera handling
- Level and Span
- Conduction pattern
- Forced convection
- Direct and indirect thermal measurement
- Thermal capacity
- Steady state and transient heat flow
- Evaporation and condensation
- Electrical application
- Emissivity and Reflected apparent temperature
- Spatial resolution
- Location and temperature measurement of a hot/cold spot
- Image transfer to the computer

**P/N: ITC-CER-5101**

© 2015, FLIR Systems, Inc.

#ITC-CER-5101; r. 23306; en-US

Course information	
Available languages	Chinese, Danish, Dutch, English, Finish, French, German, Greek, Hebrew, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (bra.), Romanian, Russian, Serbo-Croatian, Spanish, Swedish, Thai
Target group	<ul style="list-style-type: none"> <li>• Practical user</li> <li>• This course is designed for beginners in thermography with some experience in camera handling and limited IR knowledge, who want to take their first step to become a professional thermographer and want to qualify as a Level 1 certified thermographer.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>• having already some basic experience with IR thermography,</li> <li>• knowing the basic functions of the camera,</li> <li>• who wants to become a certified thermographer in order to gain a competitive advantage or who needs the certifications because of legal reasons or company internal regulations.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Be familiar with the basic operation of an infrared camera</li> <li>• Have the recommended experience within thermography according to relevant standards</li> </ul>

Course details	
Duration	35 – 40 hours
Structure	Theory and camera practice (hands-on) alternate every day, additional labs and software exercises at some days.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>• Attendance of 1 person</li> <li>• Might include more, such as lunch, depending on location and organizing entity</li> </ul>

Course organization	
ITC	The Level 1 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)

**P/N: ITC-CER-5101**

© 2015, FLIR Systems, Inc.

#ITC-CER-5101; r. 23306; en-US

- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)

**P/N: ITC-CER-5101**

© 2015, FLIR Systems, Inc.

#ITC-CER-5101; r. 23306; en-US

- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-CER-5109

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5109  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 1 certified thermographer. The participant will learn about the basics of infrared, how to operate the camera under different conditions and for various purposes, how to do an appropriate judgement of the measurement situation in the field and how to identify potential error sources. After the class, the participant will be able to do IR inspections following written guidelines and to report the result of this inspection.

### Content

- Introduction to Thermography
- Camera Operation
- Basic physics of heat
- Basic physics of infrared
- Thermal pattern recognition and IR applications
- IR temperature measurement techniques
- Qualitative and quantitative thermography
- Inspection routines and reporting

### Student presentations

During the seminar, students will generate a small case study based on the lab exercises to be presented to the class.

### Labs

- Camera handling
- Level and Span
- Conduction pattern
- Forced convection
- Direct and indirect thermal measurement
- Thermal capacity
- Steady state and transient heat flow
- Evaporation and condensation
- Electrical application
- Emissivity and Reflected apparent temperature
- Spatial resolution
- Location and temperature measurement of a hot/cold spot
- Image transfer to the computer

**P/N: ITC-CER-5109**

© 2015, FLIR Systems, Inc.

#ITC-CER-5109; r. 23306; en-US

Course information	
Available languages	Chinese, Danish, Dutch, English, Finish, French, German, Greek, Hebrew, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (bra.), Romanian, Russian, Serbo-Croatian, Spanish, Swedish, Thai
Target group	<ul style="list-style-type: none"> <li>Practical user</li> <li>This course is designed for beginners in thermography with some experience in camera handling and limited IR knowledge, who want to take their first step to become a professional thermographer and want to qualify as a Level 1 certified thermographer.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>having already some basic experience with IR thermography,</li> <li>knowing the basic functions of the camera,</li> <li>who wants to become a certified thermographer in order to gain a competitive advantage or who needs the certifications because of legal reasons or company internal regulations.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Be familiar with the basic operation of an infrared camera</li> <li>Have the recommended experience within thermography according to relevant standards</li> </ul>

Course details	
Duration	35 – 40 hours
Structure	Theory and camera practice (hands-on) alternate every day, additional labs and software exercises at some days.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>

Course organization	
ITC	The Level 1 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)

**P/N: ITC-CER-5109**

© 2015, FLIR Systems, Inc.

#ITC-CER-5109; r. 23306; en-US

- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310

**P/N: ITC-CER-5109**

© 2015, FLIR Systems, Inc.

#ITC-CER-5109; r. 23306; en-US

- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display



## P/N: ITC-CER-5205

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5205  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 2 certified thermographer. The participant will learn about topics in infrared thermography to increase the knowledge about infrared physics, heat science, infrared measurement equipment and its application. As a Level 2 thermographer the participant shall provide guidance to category 1 personnel in the areas of equipment selection, techniques, limitations, data analysis, corrective actions and reporting.

This partnumber is reserved for adding additional students to a level 2 on site class.

### Content

- Thermal science
- Heat transfer
- Temperature measurement
- Infrared science
- IR equipment and applications

### Student presentations

During the seminar, students shall present a prepared case study to the class. The maximum duration (excl. discussion) should be 7 minutes and the maximum number of 7 slides should not be exceeded.

### Labs (Note: Labs marked "(M)" are mandatory)

- Newton's law (class lab) (M)
- Advanced emissivity measurement (M)
- Variation of emissivity with the angle (M)
- Transient thermal transfer
- Indirect power measurement (M)
- IR-window transmission (M)
- Slit Response Function
- Hole Response Function (M)
- Parallel circuits

### Course information

Available languages	Dutch, English, German, French, Italian, Portuguese (bra.), Spanish, Swedish
Target group	<ul style="list-style-type: none"> <li>• Professional user</li> <li>• This course is designed for thermographers holding a Level 1 certificate, who want to increase their knowledge about IR thermography and who want to qualify as a Level 2 certified thermographer.</li> </ul>

**P/N: ITC-CER-5205**

© 2015, FLIR Systems, Inc.

#ITC-CER-5205; r. 23306; en-US

Course information	
Typical student	<ul style="list-style-type: none"> <li>A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>having several months of professional experience within thermography,</li> <li>versed in camera operation and reporting,</li> <li>holding a Level 1 certificate,</li> <li>who needs the Level 2 Certification for guidance and supervision of other thermographers or is interested in deeper understanding of IR thermography.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Valid Level 1 thermography certificate,</li> <li>Recommended experience within thermography according to relevant standards,</li> <li>Prepared case study to be presented at the Level 2 course and submitted towards qualification at course closing.</li> </ul>

Course details	
Duration	40 hours
Structure	Theory, camera practice (hands-on), and prepared case studies alternate every day.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>Attendance of 1 person</li> <li>Might include more, such as lunch, depending on location and organizing entity.</li> </ul>
Note	Only for non-EURO, non-SEK, non NOK, non- £, -non CHF countries

Course organization	
ITC	The Level 2 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in T560393 Courses offered by ITC partners. Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)

**P/N: ITC-CER-5205**

© 2015, FLIR Systems, Inc.

#ITC-CER-5205; r. 23306; en-US

- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°

**P/N: ITC-CER-5205**

© 2015, FLIR Systems, Inc.

#ITC-CER-5205; r. 23306; en-US

- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-CER-5201

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5201  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 2 certified thermographer. The participant will learn about topics in infrared thermography to increase the knowledge about infrared physics, heat science, infrared measurement equipment and its application. As a Level 2 thermographer the participant shall provide guidance to category 1 personnel in the areas of equipment selection, techniques, limitations, data analysis, corrective actions and reporting.

#### Content

- Thermal science
- Heat transfer
- Temperature measurement
- Infrared science
- IR equipment and applications

#### Student presentations

During the seminar, students shall present a prepared case study to the class. The maximum duration (excl. discussion) should be 7 minutes and the maximum number of 7 slides should not be exceeded.

#### Labs (Note: Labs marked "(M)" are mandatory)

- Newton's law (class lab) (M)
- Advanced emissivity measurement (M)
- Variation of emissivity with the angle (M)
- Transient thermal transfer
- Indirect power measurement (M)
- IR-window transmission (M)
- Slit Response Function
- Hole Response Function (M)
- Parallel circuits

### Course information

#### Available languages

Dutch, English, German, French, Italian, Portuguese (bra.), Spanish, Swedish

#### Target group

- Professional user
- This course is designed for thermographers holding a Level 1 certificate, who want to increase their knowledge about IR thermography and who want to qualify as a Level 2 certified thermographer.

**P/N: ITC-CER-5201**

© 2015, FLIR Systems, Inc.

#ITC-CER-5201; r. 23306; en-US

Course information	
Typical student	<ul style="list-style-type: none"> <li>A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>having several months of professional experience within thermography,</li> <li>versed in camera operation and reporting,</li> <li>holding a Level 1 certificate,</li> <li>who needs the Level 2 Certification for guidance and supervision of other thermographers or is interested in deeper understanding of IR thermography.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Valid Level 1 thermography certificate,</li> <li>Recommended experience within thermography according to relevant standards,</li> <li>Prepared case study to be presented at the Level 2 course and submitted towards qualification at course closing.</li> </ul>
Course details	
Duration	40 hours
Structure	Theory, camera practice (hands-on), and prepared case studies alternate every day.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>Attendance of 1 person</li> <li>Might include more, such as lunch, depending on location and organizing entity.</li> </ul>
Course organization	
ITC	The Level 2 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in T560393 Courses offered by ITC partners. Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)

**P/N: ITC-CER-5201**

© 2015, FLIR Systems, Inc.

#ITC-CER-5201; r. 23306; en-US

- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°

**P/N: ITC-CER-5201**

© 2015, FLIR Systems, Inc.

#ITC-CER-5201; r. 23306; en-US

- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°



## P/N: ITC-CER-5209

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5209  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 2 certified thermographer. The participant will learn about topics in infrared thermography to increase the knowledge about infrared physics, heat science, infrared measurement equipment and its application. As a Level 2 thermographer the participant shall provide guidance to category 1 personnel in the areas of equipment selection, techniques, limitations, data analysis, corrective actions and reporting.

### Content

- Thermal science
- Heat transfer
- Temperature measurement
- Infrared science
- IR equipment and applications

### Student presentations

During the seminar, students shall present a prepared case study to the class. The maximum duration (excl. discussion) should be 7 minutes and the maximum number of 7 slides should not be exceeded.

### Labs (Note: Labs marked "(M)" are mandatory)

- Newton's law (class lab) (M)
- Advanced emissivity measurement (M)
- Variation of emissivity with the angle (M)
- Transient thermal transfer
- Indirect power measurement (M)
- IR-window transmission (M)
- Slit Response Function
- Hole Response Function (M)
- Parallel circuits

### Course information

#### Available languages

Dutch, English, German, French, Italian, Portuguese (bra.), Spanish, Swedish

#### Target group

- Professional user
- This course is designed for thermographers holding a Level 1 certificate, who want to increase their knowledge about IR thermography and who want to qualify as a Level 2 certified thermographer.

**P/N: ITC-CER-5209**

© 2015, FLIR Systems, Inc.

#ITC-CER-5209; r. 23306; en-US

Course information	
Typical student	<ul style="list-style-type: none"> <li>A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>having several months of professional experience within thermography,</li> <li>versed in camera operation and reporting,</li> <li>holding a Level 1 certificate,</li> <li>who needs the Level 2 Certification for guidance and supervision of other thermographers or is interested in deeper understanding of IR thermography.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Valid Level 1 thermography certificate,</li> <li>Recommended experience within thermography according to relevant standards,</li> <li>Prepared case study to be presented at the Level 2 course and submitted towards qualification at course closing.</li> </ul>
Course details	
Duration	40 hours
Structure	Theory, camera practice (hands-on), and prepared case studies alternate every day.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as lunch, instructor's travel expenses, etc. depending on location and organizing entity.</li> </ul>
Course organization	
ITC	The Level 2 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in T560393 Courses offered by ITC partners. Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)

**P/N: ITC-CER-5209**

© 2015, FLIR Systems, Inc.

#ITC-CER-5209; r. 23306; en-US

- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°

**P/N: ITC-CER-5209**

© 2015, FLIR Systems, Inc.

#ITC-CER-5209; r. 23306; en-US

- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-EXP-2036

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2036  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This 2-day course consists of lectures on theoretical subjects, plus hands-on.

After a general review of heat and heat transfer, the participants will learn about radiative heat transfer, and thermography equipment. Intensive practice is performed on software.

### Content

- Introduction
- Review on thermal transfer
- Radiative heat transfer (includes estimation of  $T_{\text{Refl}}$  and the emissivity) (with practice)
- Thermography equipment
- Software e.g. ThermoCAM Researcher, FLIR Quickplot or FLIR ResearchIR

### Labs

- Measurements and software exercises

### Course information

Available languages	English, other languages upon request
Target group	<ul style="list-style-type: none"> <li>• Users of FLIR uncooled thermal cameras working with software programs as ThermoCAM Researcher, FLIR Quickplot or FLIR ResearchIR</li> <li>• and with infrared applications in the industry or at research institutions.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Laboratory and industry technical personnel</li> <li>• Researchers and scientists</li> <li>• University students</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic knowledge about thermography and related parameters.</li> <li>• Experience in measurement techniques and general software skills.</li> </ul>

### Course details

Duration	Standard: 2 days (in succession or separate) Upon request: Additional day including complementary topics (ITC-EXP-3006) Upon request: 1 day only (for experienced users with sufficient theoretical background)
Structure	Theory and hands-on

**P/N: ITC-EXP-2036**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2036; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training and/or reference material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 6 persons</li> </ul>
Note	This is normally an on-site course organized at a customer's facility. The fee does not include costs for instructor's travelling or lodging. The customer is responsible for providing access to the equipment or objects that should be analyzed or measured, a suitable meeting room, and preferably also refreshments/lunch.
Course organization	
ITC	The course "ITC R&D basics for industry users" is offered by ITC direct operations in EMEA. Specific customer requests shall be forwarded to the closest ITC or ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The course "ITC R&D basics for industry users" is delivered by ITC qualified instructors having the relevant expertise in advanced thermal measurement, infrared applications, and the use of the camera equipment including software programs.

**Compatible with the following products**

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°

**P/N: ITC-EXP-2036**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2036; r. 23306; en-US

- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-EXP-2025

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2025  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This full 2-day course aims at explaining how to set-up a procedure for the temperature control of population. It is designed for persons who might have to implement a control (medical authorities, customs, civil security, etc). It starts with a brief, but necessary, reminder of thermal transfers and of the fundamentals of thermography. Key factors such as NETD, drift and drift compensation, baseline measurement and update, and the factors influencing the diagnosis are explained in details. Camera setup is included. ITC recommends organizing it simultaneously to a real-size test (airport, ferry-port, seaport, river port, stadium, etc.).

This partnumber is reserved for adding additional students to a fever screening on site class.

### Content

- Introduction
- Human physiological factors
- Basic thermography
- IR Camera basics
- Fever screening methodology

### Labs

- Emissivity and Trefl
- Camera settings
- Influence of the object size on the measurement

### Course information

Available languages	English
Target group	<ul style="list-style-type: none"> <li>• Persons with professional interest in human febrile temperature screening.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Airline operative personnel</li> <li>• Reception personnel</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic technical understanding</li> <li>• Should be organized with a real-size test in the field</li> </ul>

### Course details

Duration	2 days
Structure	Theory, camera handling, demos in the morning and practical labs alternate.



**P/N: ITC-EXP-2025**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2025; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by qualified ITC instructor</li> <li>• Training material in printed format</li> <li>• Diploma of attendance</li> <li>• Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>
Course organization	
ITC	The "ITC Short Course Fever Screening" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Fever Screening" is lectured by qualified ITC instructors with special experience in human febrile temperature screening.

**Compatible with the following products**

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL

---

**P/N: ITC-EXP-2025**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2025; r. 23306; en-US

- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-EXP-2021

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2021  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This full 2-day course aims at explaining how to set-up a procedure for the temperature control of population. It is designed for persons who might have to implement a control (medical authorities, customs, civil security, etc). It starts with a brief, but necessary, reminder of thermal transfers and of the fundamentals of thermography. Key factors such as NETD, drift and drift compensation, baseline measurement and update, and the factors influencing the diagnosis are explained in details. Camera setup is included. ITC recommends organizing it simultaneously to a real-size test (airport, ferry-port, seaport, river port, stadium, etc.).

### Content

- Introduction
- Human physiological factors
- Basic thermography
- IR Camera basics
- Fever screening methodology

### Labs

- Emissivity and Trefl
- Camera settings
- Influence of the object size on the measurement

### Course information

Available languages	English
Target group	<ul style="list-style-type: none"> <li>• Persons with professional interest in human febrile temperature screening.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Airline operative personnel</li> <li>• Reception personnel</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic technical understanding</li> <li>• Should be organized with a real-size test in the field</li> </ul>

### Course details

Duration	2 days
Structure	Theory, camera handling, demos in the morning and practical labs alternate.

**P/N: ITC-EXP-2021**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2021; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>
Course organization	
ITC	The "ITC Short Course Fever Screening" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Fever Screening" is lectured by qualified ITC instructors with special experience in human febrile temperature screening.

**Compatible with the following products**

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL

**P/N: ITC-EXP-2021**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2021; r. 23306; en-US

- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-EXP-2029

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2029  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This full 2-day course aims at explaining how to set-up a procedure for the temperature control of population. It is designed for persons who might have to implement a control (medical authorities, customs, civil security, etc). It starts with a brief, but necessary, reminder of thermal transfers and of the fundamentals of thermography. Key factors such as NETD, drift and drift compensation, baseline measurement and update, and the factors influencing the diagnosis are explained in details. Camera setup is included. ITC recommends organizing it simultaneously to a real-size test (airport, ferry-port, seaport, river port, stadium, etc.).

### Content

- Introduction
- Human physiological factors
- Basic thermography
- IR Camera basics
- Fever screening methodology

### Labs

- Emissivity and Trefl
- Camera settings
- Influence of the object size on the measurement

### Course information

Available languages	English
Target group	<ul style="list-style-type: none"> <li>• Persons with professional interest in human febrile temperature screening.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Airline operative personnel</li> <li>• Reception personnel</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic technical understanding</li> <li>• Should be organized with a real-size test in the field</li> </ul>

### Course details

Duration	2 days
Structure	Theory, camera handling, demos in the morning and practical labs alternate.

**P/N: ITC-EXP-2029**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2029; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	The "ITC Short Course Fever Screening" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Fever Screening" is lectured by qualified ITC instructors with special experience in human febrile temperature screening.

**Compatible with the following products**

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC

**P/N: ITC-EXP-2029**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2029; r. 23306; en-US

- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°



## P/N: ITC-EXP-1019

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1019  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This is a full one day course for beginners and everybody interested in IR thermography and its applications. The course covers the basics of IR theory and includes demos, camera hand-on and practical exercises using relevant key labs.

#### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- Introduction to electrical and building inspections
- IR Camera handling
- Data analysis and reports

#### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement

### Course information

Available languages	English, French, German, Swedish, Danish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in IR thermography and its applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> <li>• A person who starts to use IR cameras at work</li> <li>• Students and pupils with thermography related projects</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>

### Course details

Duration	1 day
Structure	Theory, camera handling and demos in the morning. Practical labs in the afternoon.

**P/N: ITC-EXP-1019**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1019; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	The "ITC Short Course Introduction to Thermography" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Introduction to Thermography" is lectured by qualified ITC instructors with long time experience in the various fields of thermography.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)

**P/N: ITC-EXP-1019**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1019; r. 23306; en-US

- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC



---

**P/N: ITC-EXP-1019**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1019; r. 23306; en-US

- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-1011

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1011  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This is a full one day course for beginners and everybody interested in IR thermography and its applications. The course covers the basics of IR theory and includes demos, camera hand-on and practical exercises using relevant key labs.

#### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- Introduction to electrical and building inspections
- IR Camera handling
- Data analysis and reports

#### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement

### Course information

Available languages	English, French, German, Swedish, Danish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in IR thermography and its applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> <li>• A person who starts to use IR cameras at work</li> <li>• Students and pupils with thermography related projects</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>

### Course details

Duration	1 day
Structure	Theory, camera handling and demos in the morning. Practical labs in the afternoon.

**P/N: ITC-EXP-1011**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1011; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by qualified ITC instructor</li> <li>• Training material in printed format</li> <li>• Diploma of attendance</li> <li>• Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>
Course organization	
ITC	The "ITC Short Course Introduction to Thermography" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Introduction to Thermography" is lectured by qualified ITC instructors with long time experience in the various fields of thermography.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)

**P/N: ITC-EXP-1011**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1011; r. 23306; en-US

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL

---

**P/N: ITC-EXP-1011**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1011; r. 23306; en-US

- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display



## P/N: ITC-SOW-0001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-SOW-0001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
These courses are for users of FLIR software like FLIR Reporter Professional or FLIR ResearchIR. Please observe that content and labs depend on the software used.	
Content	
<ul style="list-style-type: none"> <li>• System requirements</li> <li>• Configuration</li> <li>• Analyzing functions</li> <li>• Templates</li> <li>• Reporting functions</li> <li>• Data exchange</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>• System set up</li> <li>• Data import</li> <li>• Data analysis</li> <li>• Creating templates</li> <li>• Creating reports</li> <li>• Exporting data</li> <li>• Triggering</li> </ul>	
Course information	
Available languages	English, French, German, other languages upon request
Target group	<ul style="list-style-type: none"> <li>• Persons interested in, or users, of the specific software.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Consultants interested in reporting</li> <li>• Building inspectors with reporting needs</li> <li>• R&amp;D staff interested in advanced data analysis</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Laptop with installed software full version or 30 day demo (download on <a href="http://www.flir.com">www.flir.com</a>)</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic knowledge about thermography and related parameters.</li> </ul>
Course details	
Duration	Depends on software.
Structure	Short system introduction, then demos and practical exercises.

**P/N: ITC-SOW-0001**

© 2015, FLIR Systems, Inc.  
#ITC-SOW-0001; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>
Course organization	
ITC	Software courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Software courses are lectured by ITC qualified instructors experienced in usage of the software being subject of the class.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)

**P/N: ITC-SOW-0001**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0001; r. 23306; en-US

- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°

**P/N: ITC-SOW-0001**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0001; r. 23306; en-US

- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-SOW-0009

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-SOW-0009  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
These courses are for users of FLIR software like FLIR Reporter Professional or FLIR ResearchIR. Please observe that content and labs depend on the software used.	
Content	
<ul style="list-style-type: none"> <li>System requirements</li> <li>Configuration</li> <li>Analyzing functions</li> <li>Templates</li> <li>Reporting functions</li> <li>Data exchange</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>System set up</li> <li>Data import</li> <li>Data analysis</li> <li>Creating templates</li> <li>Creating reports</li> <li>Exporting data</li> <li>Triggering</li> </ul>	
Course information	
Available languages	English, French, German, other languages upon request
Target group	<ul style="list-style-type: none"> <li>Persons interested in, or users, of the specific software.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Consultants interested in reporting</li> <li>Building inspectors with reporting needs</li> <li>R&amp;D staff interested in advanced data analysis</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Laptop with installed software full version or 30 day demo (download on <a href="http://www.flir.com">www.flir.com</a>)</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Basic knowledge about thermography and related parameters.</li> </ul>
Course details	
Duration	Depends on software.
Structure	Short system introduction, then demos and practical exercises.

**P/N: ITC-SOW-0009**

© 2015, FLIR Systems, Inc.  
#ITC-SOW-0009; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	Software courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Software courses are lectured by ITC qualified instructors experienced in usage of the software being subject of the class.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm

**P/N: ITC-SOW-0009**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0009; r. 23306; en-US

- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°

**P/N: ITC-SOW-0009**

© 2015, FLIR Systems, Inc.  
#ITC-SOW-0009; r. 23306; en-US

- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display



## P/N: ITC-EXP-1001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	1 day
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-1001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1001; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-1001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1001; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-1001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1001; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-1009

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1009  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	1 day
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-1009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1009; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-1009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1009; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-1009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1009; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display



## P/N: ITC-EXP-2001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	2 days
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-2001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2001; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-2001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2001; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-2001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2001; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-2009

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2009  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	2 days
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-2009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2009; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-2009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2009; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-2009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2009; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display



## P/N: ITC-EXP-3001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-3001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	3 days
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-3001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3001; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-3001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3001; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-3001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3001; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-3009

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-3009  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	3 days
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-3009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3009; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-3009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3009; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-3009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3009; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display



## P/N: ITC-TFT-0100

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TFT-0100  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

ITC travel time for instructor

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TFT-0100**

© 2015, FLIR Systems, Inc.  
#ITC-TFT-0100; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TFT-0100**

© 2015, FLIR Systems, Inc.  
#ITC-TFT-0100; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TOL-1003

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1003  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (Center and South Africa)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1003**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1003; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TOL-1003**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1003; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TOL-1001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (Europe, Balcans, Turkey, Cyprus)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1001**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1001; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC



**P/N: ITC-TOL-1001**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1001; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TOL-1005

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1005  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (other)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1005**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1005; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TOL-1005**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1005; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TOL-1002

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1002  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (Russia/GUS, Middle East, North Africa)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1002**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1002; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TOL-1002**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1002; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TOL-1004

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1004  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (various)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)



**P/N: ITC-TOL-1004**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1004; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TOL-1004**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1004; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

# Accessories for FLIR AX series

---

## P/N: T128391ACC

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T128391ACC  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Cable, M12 to pigtail, A-coded.	
Physical data	
Weight	0.085 kg (0.19 lb.)
Cable length	2 m (6.6 ft.)
Connector	M12 to pigtail
Color	Black
Shipping information	
List of contents	• Cable
Packaging, weight	0.136 kg (0.30 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	4743254001800
UPC-12	845188009953
Country of origin	Estonia

### Compatible with the following products

- 71201-0101; FLIR AX8 9 Hz

## P/N: T128390ACC

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T128390ACC  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Ethernet cable, M12 to RJ45, X-coded.	
Physical data	
Weight	0.089 kg (0.20 lb.)
Cable length	2 m (6.6 ft.)
Connector	M12 to RJ45
Color	Black
Shipping information	
List of contents	• Cable
Packaging, weight	0.14 kg (0.31 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	4743254001794
UPC-12	845188009946
Country of origin	Estonia

### Compatible with the following products

- 71201-0101; FLIR AX8 9 Hz

## P/N: T199019

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T199019  
Commit: 24717  
Language: en-US  
Modified: 2015-04-13 16:07  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

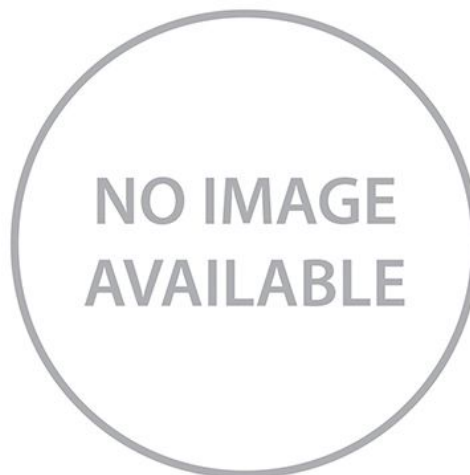
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Power supply, power over Ethernet (PoE) injector.	
Power system	
AC operation	Input: 100–240 V, 50–60 Hz
DC operation	Output: 48 VDC
Power	15.4 W
Physical data	
Weight	0.77 kg (1.7 lb.)
Size (L × W × H)	145 × 61 × 40 mm (5.7 × 2.4 × 1.6 in.)
Cable length	1.5 m (4.9 ft.)
Color	Black
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"><li>PoE injector</li><li>Cable kit Mains (UK, EU, US)</li></ul>
Packaging, weight	0.9 kg (2 lb.)
Packaging, size	240 × 170 × 80 mm (9.5 × 6.7 × 3.1 in.)
EAN-13	4743254002029
UPC-12	845188010973
Country of origin	Sweden

### Compatible with the following products

- 71201-0101; FLIR AX8 9 Hz

## P/N: T198821

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198821  
Commit: 24749  
Language: en-US  
Modified: 2015-04-15 12:53  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Aluminum cooling bracket for FLIR AX8. See dimensional drawing for mounting holes.	
Physical data	
Weight	0.14 kg (0.31 lb.)
Size (L × W × H)	110 × 60 × 12 mm (4.3 × 2.4 × 0.5 in.)
Color	Blue anodizing
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"><li>Cooling bracket</li><li>Screws</li></ul>
Packaging, weight	0.240 kg (0.53 lb.)
Packaging, size	157 × 130 × 65 mm (6.2 × 5.1 × 2.6 in.)
EAN-13	4743254002036
UPC-12	845188011161
Country of origin	Sweden

### Compatible with the following products

- 71201-0101; FLIR AX8 9 Hz

# Accessories for FLIR A3xx series

---



## P/N: 1196961

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1196961  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
The 15° lens is a popular lens accessory and provides 1.7× magnification compared to the standard lens. Ideal for small or distant targets such as overhead power lines.	
Imaging and optical data	
Field of view (FOV)	15° × 11.25°
Minimum focus distance	1.2 m (3.93 ft.)
Focal length	30.38 mm (1.2 in.)
Spatial resolution (IFOV)	Depends on the IR resolution of the camera: 1.65 mrad for 160 × 120 pixels 1.32 mrad for 200 × 150 pixels 1.10 mrad for 240 × 180 pixels 0.82 mrad for 320 × 240 pixels
F-number	1.3
Physical data	
Weight	0.092 kg (0.203 lb.), incl. two lens caps
Size (L × D)	24 × 58 mm (1.0 × 2.3 in.)
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Lens</li> <li>• Lens case</li> </ul>
Packaging, weight	0.32 kg (0.71 lb.)
Packaging, size	172 × 131 × 133 mm (6.8 × 5.2 × 5.2 in.)
EAN-13	7332558001134 4743254000889 (Estonia plant)
UPC-12	845188000127
Country of origin	Sweden

### Compatible with the following products

- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)

---

**P/N: 1196961**

© 2015, FLIR Systems, Inc.  
#1196961; r. 23380; en-US

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: 1196960

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1196960  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This wide angle lens has a field of view almost double that of the standard lens. Perfect for wide or tall targets or when working in crowded spaces.	
Imaging and optical data	
Field of view (FOV)	45° × 33.8°
Minimum focus distance	0.20 m (0.66 ft.)
Focal length	9.66 mm (0.38 in.)
Spatial resolution (IFOV)	Depends on the IR resolution of the camera: 5.18 mrad for 160 × 120 pixels 4.14 mrad for 200 × 150 pixels 3.45 mrad for 240 × 180 pixels 2.59 mrad for 320 × 240 pixels
F-number	1.3
Physical data	
Weight	0.105 kg (0.231 lb.), incl. two lens caps
Size (L × D)	38 × 47 mm (1.5 × 1.9 in.)
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Lens</li> <li>• Lens case</li> </ul>
Packaging, weight	0.33 kg (0.73 lb.)
Packaging, size	172 × 131 × 133 mm (6.8 × 5.2 × 5.2 in.)
EAN-13	7332558001141 4743254000834 (Estonia plant)
UPC-12	845188000134
Country of origin	Sweden

### Compatible with the following products

- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)

---

**P/N: 1196960**

© 2015, FLIR Systems, Inc.  
#1196960; r. 23380; en-US

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: T197215

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197215  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
For R&D usage or development purposes. As an example looking at PCB's or small electronic components.	
Imaging and optical data	
Field of view (FOV)	32 × 24 mm
Magnifying factor	4×
Working distance	79 mm
Depth of field	±2.0 mm
Focal length	73 mm (2.9 in.)
Spatial resolution (IFOV)	Depends on the IR resolution of the camera: 200 µm for 160 × 120 pixels 160 µm for 200 × 150 pixels 133 µm for 240 × 180 pixels 100 µm for 320 × 240 pixels
F-number	1.3
Number of lenses	2 (2 asph)
MTF @ 70% of FOV	Normal requirements (52%)
Distortion	3%
Physical data	
Weight	0.11 kg (0.24 lb.)
Size (L × D)	35.2 × 55 mm
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Lens</li> <li>• Lens case</li> </ul>
Packaging, weight	0.340 kg (0.75 lb.)
Packaging, size	172 × 131 × 133 mm (6.8 × 5.2 × 5.2 in.)
EAN-13	7332558005088
UPC-12	845188005115
Country of origin	Sweden

### Compatible with the following products

- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)



Close-up 4x (100 µm) incl. case

---

**P/N: T197215**

© 2015, FLIR Systems, Inc.  
#T197215; r. 23380; en-US

- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc

## P/N: T197214

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197214  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
For R&D usage or development purposes. As an example looking at PCB's or small electronic components.	
Imaging and optical data	
Field of view (FOV)	16 × 12 mm
Magnifying factor	2×
Working distance	33 mm
Depth of field	±0.4 mm
Focal length	37 mm (1.5 in.)
Spatial resolution (IFOV)	Depends on the IR resolution of the camera: 100 µm for 160 × 120 pixels 80 µm for 200 × 150 pixels 67 µm for 240 × 180 pixels 50 µm for 320 × 240 pixels
F-number	1.3
Number of lenses	2 (2 asph)
MTF @ 70% of FOV	Normal requirements (52%)
Distortion	3%
Physical data	
Weight	0.11 kg (0.24 lb.)
Size (L × D)	35.2 × 55 mm
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Lens</li> <li>• Lens case</li> </ul>
Packaging, weight	0.346 kg (0.8 lb.)
Packaging, size	172 × 131 × 133 mm (6.8 × 5.2 × 5.2 in.)
EAN-13	7332558005095
UPC-12	845188005122
Country of origin	Sweden

### Compatible with the following products

- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)



Close-up 2x (50 µm) incl. case

---

**P/N: T197214**

© 2015, FLIR Systems, Inc.  
#T197214; r. 23380; en-US

- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc



## P/N: T197407

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197407  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
A narrow FOV is used in applications where the object that is going to be monitored is remote from the camera or when the camera needs to be far away from the object due to for an example high temperatures.	
Imaging and optical data	
Field of view (FOV)	6° × 4.5°
Minimum focus distance	4 m (13.11 ft.)
Focal length	76 mm (3.0 in.)
Spatial resolution (IFOV)	0.33 mrad
F-number	1.3
Number of lenses	3 (3 asph)
MTF @ 70% of FOV	Normal requirements (52%)
Distortion	3%
Physical data	
Weight	Lens: 0.328 kg (0.723 lb.) Support: 0.15 kg (0.331 lb.)
Size (L × D)	106 × 89 mm (4.17 × 3.48 in.), excluding support
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Lens</li> <li>• Lens case</li> <li>• Mounting support</li> </ul>
Packaging, weight	1.266 kg (2.8 lb.)
Packaging, size	385 × 308 × 162 mm (15.2 × 12.1 × 6.4 in.)
EAN-13	7332558005804
UPC-12	845188006013
Country of origin	Sweden

### Compatible with the following products

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc

## P/N: T197411

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197411  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
A wide angle lens is used when working in confined areas or when a large object area needs to be covered. This lens is also designed for to look in to electrical cabinets down to 1/2" windows.	
Imaging and optical data	
Field of view (FOV)	90° × 73°
Minimum focus distance	40 mm (1.57 in.)
Focal length	4 mm (0.157 in.)
Spatial resolution (IFOV)	6.3 mrad
F-number	1.3
Number of lenses	3 (3asph)
MTF @ 70% of FOV	Normal requirements (52%)
Distortion	5%
Physical data	
Weight	Lens: 0.262 kg (0.578 lb.) Support: 0.048 kg (0.106 lb.)
Size (L × D)	90 × 60 mm (3.54 × 2.36 in.), excluding support
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Lens</li> <li>• Lens case</li> <li>• Mounting support</li> </ul>
Packaging, weight	1.052 kg (2.3 lb.)
Packaging, size	385 × 308 × 165 mm (15.2 × 12.1 × 6.5 in.)
EAN-13	7332558005538
UPC-12	845188005740
Country of origin	Sweden

### Compatible with the following products

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc

## P/N: T197415

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197415  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
For R&D usage or development purposes. As an example looking at PCB's or small electronic components.	
Imaging and optical data	
Field of view (FOV)	8 × 6 mm
Magnifying factor	1×
Working distance	20 mm
Depth of field	±0.15 mm
Focal length	18.2 mm (0.72 in.)
Spatial resolution (IFOV)	25 µm
F-number	1.3
Number of lenses	3 (3 asph)
MTF @ 70% of FOV	Normal requirements (52%)
Distortion	3%
Lens note	The lens and mounting support does not mechanically fit the FLIR T/Bxxx series.
Physical data	
Weight	0.38 kg (0.83 lb.)
Size (L × D)	167 × 60 mm
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Lens</li> <li>• Lens case</li> <li>• Mounting support</li> </ul>
Packaging, weight	1.168 kg (2.6 lb.)
Packaging, size	385 × 308 × 165 mm (15.2 × 12.1 × 6.5 in.)
EAN-13	7332558005958
UPC-12	845188006143
Country of origin	Sweden

### Compatible with the following products

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)



Close-up 1× (25 µm) incl. case and mounting support for A3xx, A3xxsc

---

**P/N: T197415**

© 2015, FLIR Systems, Inc.  
#T197415; r. 23380; en-US

- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc

## P/N: T197000

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197000  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

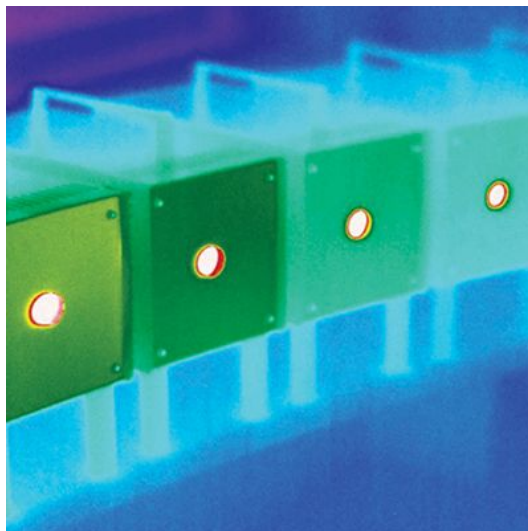
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
For high temperature applications the camera can be calibrated for high temperature ranges.	
Measurement	
Optional object temperature range	+200°C to +1200°C (+392°F to +2192°F)

### Compatible with the following products

- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL



High temp. option +1200°C/+2192°F for FLIR T/B2xx to T/B4xx and A3xx, A3xxf, A3xxpt, A3xxsc series

---

**P/N: T197000**

© 2015, FLIR Systems, Inc.  
#T197000; r. 23306; en-US

- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL

## P/N: 1910400

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1910400  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Power cord (EU) for the power supply (1910585) used together with the FLIR A/SC3xx and A/SC6xx series.	
The power supply (1910585) itself is discontinued and replaced by a new power supply (which includes multi plugs and another power cable).	
Power system	
AC operation	250 V 16 A
Physical data	
Cable length	2.0 m (6.6 ft.)
Color	Black
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009253
UPC-12	845188009786
Country of origin	Sweden

### Compatible with the following products

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°



## Power cord EU

---

### P/N: 1910400

© 2015, FLIR Systems, Inc.  
#1910400; r. 23306; en-US

- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°



## P/N: 1910401

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1910401  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Power cord (US) for the power supply (1910585) used together with the FLIR A/SC3xx and A/SC6xx series.	
The power supply (1910585) itself is discontinued and replaced by a new power supply (which includes multi plugs and another power cable).	
Power system	
AC operation	125 V 15 A
Physical data	
Cable length	2.0 m (6.6 ft.)
Color	Black
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009260
UPC-12	845188009793
Country of origin	Sweden

### Compatible with the following products

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°



## Power cord US

---

### P/N: 1910401

© 2015, FLIR Systems, Inc.  
#1910401; r. 23306; en-US

- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

**P/N: 1910402**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 1910402  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Power cord (UK) for the power supply (1910585) used together with the FLIR A/SC3xx and A/SC6xx series.	
The power supply (1910585) itself is discontinued and replaced by a new power supply (which includes multi plugs and another power cable).	
Power system	
AC operation	250 V 13 A
Physical data	
Cable length	2.0 m (6.6 ft.)
Color	Black
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009277
UPC-12	845188009809
Country of origin	Sweden

## Compatible with the following products

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°



## Power cord UK

---

### P/N: 1910402

© 2015, FLIR Systems, Inc.  
#1910402; r. 23306; en-US

- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: T910922

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T910922  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Power supply, incl. multi plugs	
Power system	
AC operation	100–240 VAC, 50/60 Hz, 12 VDC out
Power	2000 mA at 12 VDC
Physical data	
Size (L × W × H)	81 × 47 × 34 mm (3.2 × 1.9 × 1.3 in.)
Cable length	1.5 m (4.9 ft.)
Color	Black
Shipping information	
List of contents	<ul style="list-style-type: none"> <li>Power supply including cable</li> <li>EU plug</li> <li>UK plug</li> <li>US plug</li> <li>AU plug</li> </ul>
EAN-13	7332558009284
UPC-12	845188009816
Country of origin	Sweden

### Compatible with the following products

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°



Power supply, incl. multi plugs, for A3xx, A3xxsc, A6xx and A6xxsc

---

**P/N: T910922**

© 2015, FLIR Systems, Inc.  
#T910922; r. 23306; en-US

- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: T911182

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T911182  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Power supply for A3xx f cameras with IP 66 classification.	
Power system	
AC operation	100–240 V, 50–60 Hz, 0.9–0.2 A
DC operation	Output: 24 VDC 2.0 A
Power	50 W
Environmental data	
Operating temperature range	–30°C to +50°C (–22°F to +122°F)
Physical data	
Weight	0.850 kg (1.9 lb.)
Size (L × W × H)	150 × 101 × 47 mm (5.9 × 3.98 × 1.85 in.)
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009291
UPC-12	845188009823
Country of origin	Sweden

### Compatible with the following products

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°



---

**P/N: T911182**

© 2015, FLIR Systems, Inc.  
#T911182; r. 23306; en-US

- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°



## P/N: 908929

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 908929  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This cable is used to transfer video signals from the infrared camera to an external monitor, or to a computer featuring an internal video card.

### Physical data

Weight	163 g (5.7 oz.)
Cable length	3.0 m (9.8 ft.)
Connector	BNC

### Shipping information

Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009444
UPC-12	845188010027
Country of origin	Sweden

### Compatible with the following products

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°

## P/N: T951004ACC

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T951004ACC  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This cable is used to connect the infrared camera to Ethernet.	
Physical data	
Weight	80 g (2.8 oz.)
Cable length	2.0 m (6.6 ft.)
Connector	RJ-45 to RJ-45
Cable type	CAT-6
Shipping information	
Packaging, type	Cardboard box
Packaging, weight	130 g (4.6 oz.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558006320
UPC-12	845188006679
Country of origin	Sweden

### Compatible with the following products

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)



---

**P/N: T951004ACC**

© 2015, FLIR Systems, Inc.  
#T951004ACC; r. 23306; en-US

- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: 1910586ACC

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1910586ACC  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This cable is used, when a separate power supply is used (not the one supplied with the camera)	
Physical data	
Weight	75 g (2.6 oz.)
Cable length	2.0 m (6.6 ft.)
Connector	Pigtailed
Color	Black
Shipping information	
Packaging, type	Cardboard box
Packaging, weight	163 g (5.7 oz.)
Packaging, size	170 × 64 × 75 mm (6.69 × 2.52 × 2.95 in.)
EAN-13	7332558006375
UPC-12	845188006723
Country of origin	Sweden

### Compatible with the following products

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°



## Power cable, pigtailed

---

### P/N: 1910586ACC

© 2015, FLIR Systems, Inc.  
#1910586ACC; r. 23306; en-US

- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: T197871ACC

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197871ACC  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Rugged, watertight plastic case for FLIR A3xx, A3xxsc, A6xx and A6xxsc series. Holds all items neatly and securely. The case can be locked with padlocks and features a breather valve to prevent pressure build-up in airplane cargo holds.	
Physical data	
Weight	3.1 kg (6.8 lb.)
Size (L x W x H)	463 x 346 x 172 mm (18.2 x 13.6 x 6.8 in.)
Color	Black
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Hard transport case</li> </ul>
Packaging, weight	3.45 kg (7.6 lb.)
Packaging, size	495 x 370 x 192 mm (19.5 x 14.6 x 7.6 in.)
EAN-13	7332558008331
UPC-12	845188008680
Country of origin	Sweden

### Compatible with the following products

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°



## Hard transport case for A3xx, A3xxsc, A6xx and A6xxsc series

---

**P/N: T197871ACC**

© 2015, FLIR Systems, Inc.

#T197871ACC; r. 23306; en-US

- 55001-0305; FLIR A655sc 80°

## P/N: T197870ACC

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197870ACC  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Cardboard box with plastic handle for the A3xx, A3xxsc, A6xx and A6xxsc series. Holds all items neatly.	
Physical data	
Weight	0.86 kg (1.9 lb.)
Size (L x W x H)	455 x 300 x 165 mm (17.9 x 11.8 x 6.5 in.)
Material	Cardboard
Shipping information	
Packaging, type	Cardboard box
List of contents	• Transport case
Packaging, weight	1.25 kg (2.76 lb.)
Packaging, size	495 x 370 x 192 mm (19.5 x 14.6 x 7.6 in.)
EAN-13	7332558008324
UPC-12	845188008673
Country of origin	Sweden

### Compatible with the following products

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°





## Cardboard box for A3xx, A3xxsc, A6xx and A6xxsc series

---

**P/N: T197870ACC**

© 2015, FLIR Systems, Inc.

#T197870ACC; r. 23306; en-US

- 55001-0305; FLIR A655sc 80°

## P/N: 61301-0002

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 61301-0002  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
The main purpose of the environmental housing is to increase the environmental specification of any A3XX camera to IP 66 without affecting any of the features available in the camera itself.	
Environmental data	
Operating temperature range	–25°C to +50°C (–13°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Physical data	
Weight	4.0 kg (8.8 lb.)
Size (L × W × H)	460 × 140 × 150 mm (18.1 × 5.5 × 5.9 in.)
Shipping information	
List of contents	• Fixed Housing for A3xx 7°/15°
EAN-13	7332558005101
UPC-12	845188005153
Country of origin	Sweden

### Compatible with the following products

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)

## P/N: 61301-0001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 61301-0001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
The main purpose of the environmental housing is to increase the environmental specification of any A3XX camera to IP 66 without affecting any of the features available in the camera itself.	
Environmental data	
Operating temperature range	–25°C to +50°C (–13°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Physical data	
Weight	4.0 kg (8.8 lb.)
Size (L × W × H)	460 × 140 × 150 mm (18.1 × 5.5 × 5.9 in.)
Shipping information	
List of contents	• Fixed Housing for A3xx 7°/15°
EAN-13	7332558004982
UPC-12	845188004996
Country of origin	Sweden

### Compatible with the following products

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)

## P/N: T198584

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198584  
Commit: 25122  
Language: en-US  
Modified: 2015-04-29 09:51  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
FLIR Tools is a software suite specifically designed to provide an easy way to update your camera and create inspection reports.	
Key features:	
<ul style="list-style-type: none"> <li>Report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR).</li> <li>Manual IR/Visual Image Grouping</li> <li>Import images from your camera to your computer.</li> <li>Apply filters when searching for images.</li> <li>Search all text in images and text annotations.</li> <li>Store the five latest search criteria's.</li> <li>Lay out, move, and resize measurement tools on any infrared image.</li> <li>Create PDF imagesheets of any images of your choice.</li> <li>Add headers, footers, and logos to imagesheets.</li> <li>Create PDF reports for images of your choice.</li> <li>Add headers, footers, and logos to reports.</li> <li>Report editor (report page preview and snap to grid).</li> <li>Sort function (by date, groups sorted by path, and groups sorted by date).</li> <li>Browse and purchase infrared cameras, software, and accessories in the webshop.</li> <li>Software localized to 21 languages.</li> <li>Support for MSX (Multi-Spectral Dynamic Imaging ) Images</li> <li>Support for Sketch Images on both IR and Visual with toggling ON/OFF feature.</li> <li>Support for Same FOV ( Field of View Match )</li> <li>Display of Compass Information in Edit and in Report.</li> <li>Display of GPS Information in Edit and in Report.</li> <li>Microsoft Windows 7 (32- and 64-bit) and Windows 8 (32- and 64-bit)</li> <li>Camera update (applies to FLIR Ex, Kxx, Exx and T6xx series only).</li> </ul>	
Download	
This software is a freeware. To download, click the following link:	
<a href="http://support.flir.com/tools">http://support.flir.com/tools</a>	
Release notes	
Version	5.2
New features in version 5.2	<ul style="list-style-type: none"> <li>Support for auto-adjusting a region.</li> <li>Support for zoom.</li> <li>Various bug fixes.</li> </ul>
New features in version 5.1	<ul style="list-style-type: none"> <li>Improved import performance.</li> <li>Added support for video recording settings for FLIR Kxx series.</li> <li>Added support for importing video files from FLIR Kxx series.</li> <li>Added support for FLIR C2 camera.</li> <li>Various bug fixes.</li> </ul>

**P/N: T198584**

© 2015, FLIR Systems, Inc.  
#T198584; r. 25122; en-US

Release notes	
New features in version 5.0	<ul style="list-style-type: none"> <li>Local object parameters for measurement tools.</li> <li>Save a report in-process with the ability to edit at a later time.</li> <li>Pull-down menus for text annotations.</li> <li>Variable playback speed for recordings.</li> <li>Show or hide min./max./avg. temperature, and hot/cold markers, for areas and lines.</li> <li>Smoother display for low-resolution images.</li> <li>UltraMax image enhancement.</li> <li>Dropping support for Windows XP.</li> <li>Various bug fixes.</li> </ul>
New features in version 4.1	<ul style="list-style-type: none"> <li>Previous/next in Edit mode.</li> <li>Clone in the Library.</li> <li>Extract visual photo from a multispectral image.</li> <li>Import *.mp4, *.seq, and *.csq files from the camera.</li> <li>Playback/edit *.seq and *.csq files.</li> <li>Scale enhancement for the FLIR GF3xx series.</li> <li>Auto resize of thumbnails during importing for the FLIR T6xx series.</li> <li>Grouping/ungrouping now added.</li> <li>Various bug fixes.</li> </ul>
New features in version 4.0	<ul style="list-style-type: none"> <li>Support for the new FLIR Ex and Exx series cameras.</li> <li>Interactive quick start guide when connecting a FLIR camera.</li> <li>Improved library view.</li> <li>Support for multispectral images.</li> <li>Support for auto-oriented images.</li> <li>Various bug fixes.</li> </ul>
New features in version 3.1	<ul style="list-style-type: none"> <li>Support for FLIR K series cameras.</li> <li>Interactive quick start guide when connecting a FLIR K series camera.</li> <li>Live image streaming from FLIR K series cameras.</li> <li>PC-side configuration of FLIR K series cameras.</li> <li>New report templates for DC images only added.</li> <li>Various bug fixes.</li> </ul>
New features in version 3.0	<ul style="list-style-type: none"> <li>Add folder to library.</li> <li>Support for isotherms and color alarms</li> <li>Image description for both IR and DC.</li> <li>Export functionality (*.avi, *.csv).</li> <li>Microsoft Windows 8 (32- and 64-bit)</li> <li>New web installer</li> <li>Various bug fixes.</li> </ul>
New features in version 2.2	<ul style="list-style-type: none"> <li>Camera tab: <ul style="list-style-type: none"> <li>Logging feature in Camera Tab</li> <li>Recording and playback of SEQ files.</li> </ul> </li> <li>Various bug fixes.</li> </ul>
New features in version 2.1	<ul style="list-style-type: none"> <li>New Text Comment Template Tab: <ul style="list-style-type: none"> <li>Create, Edit and Transfer templates to and from any FLIR Camera.</li> <li>Import and Export of Templates.</li> </ul> </li> <li>Support for MSX (Multi-Spectral Dynamic Imaging ) Images</li> <li>Support for Sketch Images on both IR and Visual with toggling ON/OFF feature.</li> <li>Support for Same FOV ( Field of View Match )</li> <li>Display of Compass Information in Edit and in Report.</li> <li>Display of GPS Information in Edit and in Report. <ul style="list-style-type: none"> <li>Direct Link to Google Maps for GPS Tagged images from Report.</li> </ul> </li> <li>Support for 3x5 and 6x5 A-series cameras</li> </ul>

**P/N: T198584**

© 2015, FLIR Systems, Inc.  
#T198584; r. 25122; en-US

Release notes	
New features in version 2.0	<ul style="list-style-type: none"> <li>Camera tab: <ul style="list-style-type: none"> <li>Camera connection with FLIR UVC cameras.</li> <li>Measurement data analysis.</li> <li>Plotting.</li> <li>Snapshot saving with text annotation and plot.</li> </ul> </li> <li>Performance improvement for large reports: can now create reports and imagesheets of up to 200 pages.</li> <li>Various bug fixes.</li> </ul>
New features in version 1.3	<ul style="list-style-type: none"> <li>Import from ix series cameras.</li> <li>Add and remove a form from a group.</li> <li>Text comments are now saved in the infrared image.</li> <li>The indexing engine can create groups from IR, DC, and text annotations when indexing the paths in the watch folder.</li> <li>Arrow tool in the report toolbar.</li> <li>Reorder pages.</li> <li>Text annotations can now be edited in the report.</li> <li>New report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR).</li> <li>New sample images.</li> </ul>
New features in version 1.2 SP1	<ul style="list-style-type: none"> <li>Various bug fixes.</li> </ul>
New features in version 1.2	<ul style="list-style-type: none"> <li>Search function: <ul style="list-style-type: none"> <li>Store the five latest search criterias.</li> <li>Search in all texts in images and text annotations.</li> </ul> </li> <li>Sort function: <ul style="list-style-type: none"> <li>By date.</li> <li>Groups sorted by by path.</li> <li>Groups sorted by date.</li> </ul> </li> <li>Report editor: <ul style="list-style-type: none"> <li>Report page preview.</li> <li>Snap to grid.</li> <li>Various bug fixes.</li> </ul> </li> </ul>
New features in version 1.1 SP1	<ul style="list-style-type: none"> <li>Extension to the camera update functionality.</li> <li>Various bug fixes</li> </ul>
New features in version 1.1	<ul style="list-style-type: none"> <li>Software localized to 21 languages.</li> <li>Camera update. (Exx, T6xx)</li> <li>Option to rotate an infrared image in the infrared editor.</li> </ul>

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Digital download, or</li> <li>CD-ROM</li> </ul>
Packaging, weight	0.106 kg (0.23 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005279
UPC-12	845188005481
Country of origin	Sweden

System requirements	
Operating system	<ul style="list-style-type: none"> <li>Windows XP, 32-bit</li> <li>Windows Vista, 32-bit</li> <li>Windows 7, 32-bit</li> <li>Windows 7, 64-bit</li> <li>Windows 8, 32-bit</li> <li>Windows 8, 64-bit</li> </ul>

**P/N: T198584**

© 2015, FLIR Systems, Inc.  
#T198584; r. 25122; en-US

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm

**P/N: T198584**

© 2015, FLIR Systems, Inc.  
#T198584; r. 25122; en-US

- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens



**P/N: T198584**

© 2015, FLIR Systems, Inc.  
#T198584; r. 25122; en-US

- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72001-0101; FLIR C2

**P/N: T198583**

## Copyright

© 2015, FLIR Systems, Inc.

All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: T198583

Commit: 25121

Language: en-US

Modified: 2015-04-29 09:50

Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.

27700 SW Parkway Ave.

Wilsonville, OR 97070

USA

Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Compared to FLIR Tools, FLIR Tools+ has the following features:	
<ul style="list-style-type: none"> <li>• Radiometric Panorama incl. MSX</li> <li>• Radiometric IR Video Recording</li> <li>• Advanced Reporting</li> </ul>	
FLIR Tools/Tools+ is a software suite specifically designed to provide an easy way to update your camera and create inspection reports.	
FLIR Tools+ main features:	
<ul style="list-style-type: none"> <li>• Manual IR/Visual Image Grouping</li> <li>• Radiometric Panorama incl. MSX</li> <li>• Radiometric IR Video Recording</li> <li>• Advanced Reporting - Microsoft Office 2007 (32bit), and 2010 (32bit) support</li> <li>• Report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR).</li> <li>• Import images from your camera to your computer.</li> <li>• Apply filters when searching for images.</li> <li>• Search all text in images and text annotations.</li> <li>• Store the five latest search criteria's.</li> <li>• Lay out, move, and resize measurement tools on any infrared image.</li> <li>• Create PDF imagesheets of any images of your choice.</li> <li>• Add headers, footers, and logos to imagesheets.</li> <li>• Create PDF reports for images of your choice.</li> <li>• Add headers, footers, and logos to reports.</li> <li>• Report editor (report page preview and snap to grid).</li> <li>• Sort function (by date, groups sorted by path, and groups sorted by date).</li> <li>• Browse and purchase infrared cameras, software, and accessories in the webshop.</li> <li>• Software localized to 21 languages.</li> <li>• Support for MSX (Multi-Spectral Dynamic Imaging ) Images</li> <li>• Support for Sketch Images on both IR and Visual with toggling ON/OFF feature.</li> <li>• Support for Same FOV ( Field of View Match )</li> <li>• Display of Compass Information in Edit and in Report.</li> <li>• Display of GPS Information in Edit and in Report.</li> <li>• Microsoft Windows 7 (32- and 64-bit) and Windows 8 (32- and 64-bit)</li> <li>• Camera update (applies to FLIR Ex, Kxx, Exx and T6xx series only).</li> </ul>	
Download	
Download a 30-day evaluation version here:	
<a href="http://support.flir.com/toolsplus">http://support.flir.com/toolsplus</a>	
Release notes	
Version	5.2
New features in version 5.2	<ul style="list-style-type: none"> <li>• Support for auto-adjusting a region.</li> <li>• Support for zoom.</li> <li>• Express Microsoft Word reporting (*.docx).</li> <li>• Various bug fixes.</li> </ul>

**P/N: T198583**

© 2015, FLIR Systems, Inc.  
#T198583; r. 25121; en-US

Release notes	
New features in version 5.1	<ul style="list-style-type: none"><li>• Improved import performance.</li><li>• Added support for video recording settings for FLIR Kxx series.</li><li>• Added support for importing video files from FLIR Kxx series.</li><li>• Added support for FLIR C2 camera.</li><li>• Various bug fixes.</li></ul>
New features in version 5.0	<ul style="list-style-type: none"><li>• Local object parameters for measurement tools.</li><li>• Save a report in-process with the ability to edit at a later time.</li><li>• Pull-down menus for text annotations.</li><li>• Variable playback speed for recordings.</li><li>• Show or hide min./max./avg. temperature, and hot/cold markers, for areas and lines.</li><li>• Smoother display for low-resolution images.</li><li>• UltraMax image enhancement.</li><li>• Dropping support for Windows XP.</li><li>• Various bug fixes.</li></ul>
New features in version 4.1	<ul style="list-style-type: none"><li>• Previous/next in Edit mode.</li><li>• Clone in the Library.</li><li>• Extract visual photo from a multispectral image.</li><li>• Import *.mp4, *.seq, and *.csq files from the camera.</li><li>• Playback/edit *.seq and *.csq files.</li><li>• Scale enhancement for the FLIR GF3xx series.</li><li>• Auto resize of thumbnails during importing for the FLIR T6xx series.</li><li>• Grouping/ungrouping now added.</li><li>• Various bug fixes.</li></ul>
New features in version 4.0	<ul style="list-style-type: none"><li>• Support for the new FLIR Ex and Exx series cameras.</li><li>• Interactive quick start guide when connecting a FLIR camera.</li><li>• Improved library view.</li><li>• Support for multispectral images.</li><li>• Support for auto-oriented images.</li><li>• Various bug fixes.</li></ul>
New features in version 3.1	<ul style="list-style-type: none"><li>• Support for FLIR K series cameras.</li><li>• Interactive quick start guide when connecting a FLIR K series camera.</li><li>• Live image streaming from FLIR K series cameras.</li><li>• PC-side configuration of FLIR K series cameras.</li><li>• New report templates for DC images only added.</li><li>• Various bug fixes.</li></ul>
New features in version 3.0	<ul style="list-style-type: none"><li>• Add folder to library.</li><li>• Support for isotherms and color alarms</li><li>• Image description for both IR and DC.</li><li>• Export functionality (*.avi, *.csv).</li><li>• Microsoft Windows 8 (32- and 64-bit)</li><li>• New web installer</li><li>• Radiometric panorama with MSX images.</li><li>• Advanced reports.</li><li>• Manual grouping/ungrouping of images.</li><li>• Various bug fixes.</li></ul>
New features in version 2.2	<ul style="list-style-type: none"><li>• Camera tab:<ul style="list-style-type: none"><li>• Logging feature in Camera Tab</li><li>• Recording and playback of SEQ files.</li></ul></li><li>• Various bug fixes.</li></ul>
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"><li>• FLIR Tools+ scratchcard</li></ul>
Packaging, weight	0.059 kg (0.13 lb.)

**P/N: T198583**

© 2015, FLIR Systems, Inc.  
#T198583; r. 25121; en-US

Shipping information	
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	73325585378 4743254001442 (Estonia plant)
UPC-12	845188005580
Country of origin	Sweden
System requirements	
Operating system	<ul style="list-style-type: none"> <li>Windows XP, 32-bit</li> <li>Windows Vista, 32-bit</li> <li>Windows 7, 32-bit</li> <li>Windows 7, 64-bit</li> <li>Windows 8, 32-bit</li> <li>Windows 8, 64-bit</li> </ul>
Software requirements	<ul style="list-style-type: none"> <li>Office 2007, 32-bit</li> <li>Office 2010, 32-bit</li> <li>Office 2013, 32-bit</li> </ul>

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)

**P/N: T198583**

© 2015, FLIR Systems, Inc.  
#T198583; r. 25121; en-US

- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens

**P/N: T198583**

© 2015, FLIR Systems, Inc.  
#T198583; r. 25121; en-US

- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 63901-0101; FLIR E4
- 63905-0501; FLIR E5
- 63902-0202; FLIR E6
- 63903-0303; FLIR E8

## P/N: DSW-10000

### Copyright

© 2015, FLIR Systems, Inc.

All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: DSW-10000

Commit: 24597

Language: en-US

Modified: 2015-04-09 13:38

Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.

27700 SW Parkway Ave.

Wilsonville, OR 97070

USA

Telephone: +1-503-498-3547

### Website

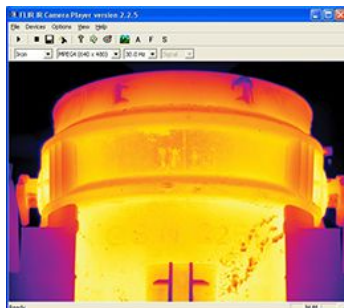
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

FLIR IR Camera Player is a PC-based remote control and viewer that you can use with cameras from FLIR Systems.

You can perform one or more of the following with FLIR IR Camera Player:

- Record a video stream from the camera.
- Save a frame from the video stream as a snapshot image (\*.bmp).
- Autofocus, focus far, and focus near.
- Autoadjust the camera image.
- Freeze the camera image.
- Save a camera image in the camera.
- Change Color palette.
- Add an image description and a text comment to an image.

You connect a camera in one of the following ways:

- Ethernet
- FireWire
- USB

### Download

This software is a freeware. To download, click the following link:

<http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=89>

### Release notes

Version	2.3.3
New features	<p>Main improvements in version 2.3.3:</p> <ul style="list-style-type: none"> <li>• Added latest device drivers (1.9.1.0).</li> <li>• Various bugfixes</li> </ul> <p>Main improvements in version 2.2.7:</p> <ul style="list-style-type: none"> <li>• Added support for FLIR Ax5 series.</li> </ul>

### System requirements

Operating system	<ul style="list-style-type: none"> <li>• Windows XP, 32-bit</li> <li>• Windows Vista, 32-bit/64-bit</li> <li>• Windows 7, 32-bit/64-bit</li> </ul>
------------------	--

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)

**P/N: DSW-10000**

© 2015, FLIR Systems, Inc.  
#DSW-10000; r. 24597; en-US

- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc



**P/N: DSW-10000**

© 2015, FLIR Systems, Inc.  
#DSW-10000; r. 24597; en-US

- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)



---

**P/N: DSW-10000**

© 2015, FLIR Systems, Inc.  
#DSW-10000; r. 24597; en-US

- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: APP-10002

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: APP-10002  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

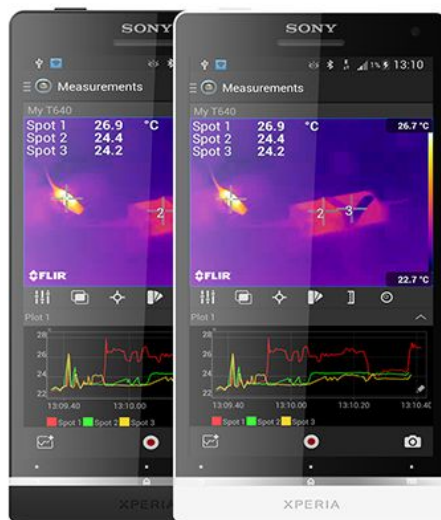
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

FLIR Tools Mobile is an intuitive Android app for analyzing, managing, and distributing infrared images.

#### Key features:

- Remote control
- MSX
- Images with sketch on DC and IR
- Images with field of view follow
- Editable text comments
- Emissivity table
- Import images from your Wi-Fi-enabled camera.
- Connect and stream infrared images from the camera.
- Connect and stream measurement data from FLIR Test & Measurement meters
- Lay out and move measurement tools on the image.
- Read out temperature measurements.
- Create and configure temporal plots based on results of measurement tools on the infrared image.
- Log measurement data and export it as a \*.csv file.
- Save a measurement scenario as a data snapshot.
- Zoom in on images.
- On the Android device, remotely take snapshots when a camera is connected.
- On the camera, take snapshots that will automatically be saved on the Android device.
- Delete images on the Android device.
- Display an image's GPS coordinates on Google Maps.
- Create and e-mail reports.
- Save images in the Android device photo library.
- Send images to FTP sites and other file-sharing services (Dropbox, Box.net, etc.).
- Display image information, e.g., object parameters, text comments, and file details.
- Play back voice comments.
- Change the level and span.
- Change general settings in the app.
- Change the palette.

### Download

The application can be downloaded from Android Market or Amazon Marketplace, see the link below.

<https://market.android.com/details?id=com.flir.viewer>

**P/N: APP-10002**

© 2015, FLIR Systems, Inc.  
#APP-10002; r. 24597; en-US

Release notes	
Version	3.4.0
New features	<p>Main improvements in version 3.4.0:</p> <ul style="list-style-type: none"> <li>• Support for *.csq files.</li> <li>• Various bug fixes.</li> </ul> <p>Main improvements in version 3.2.0:</p> <ul style="list-style-type: none"> <li>• Receive data logs from FLIR DM93.</li> <li>• Save or export data logs in new *.csv format.</li> <li>• Various bug fixes.</li> </ul> <p>Main improvements in version 3.1.0:</p> <ul style="list-style-type: none"> <li>• Added variable level of MSX alpha</li> <li>• Added Fusion Blending mode for images with possibility to adjust level</li> <li>• Stability fixes</li> <li>• Improved memory management</li> <li>• Modified internal handling of measurement results and displaying them.</li> </ul>
System requirements	
Operating system	<ul style="list-style-type: none"> <li>• Android 2.3 and later</li> </ul>

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)



**P/N: APP-10002**

© 2015, FLIR Systems, Inc.  
#APP-10002; r. 24597; en-US

- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: APP-10003

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: APP-10003  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

FLIR Tools Mobile lets professional thermographers use an iPad, iPhone, or iPod touch to see and capture live, streaming infrared video and stills from select FLIR cameras.

With FLIR Tools Mobile the camera can be stationed in one area and operated wirelessly from another – highly useful for IR inspections of energized equipment or performing IR surveys in hard-to-reach locations and harsh working environments. Streaming video and remote access also gives decision makers and others on your team a valuable opportunity to observe and collaborate in the thermal imaging process.

Using FLIR Tools Mobile, you can do one or more of the following:

- Import images from your infrared camera
- Lay out and move measurement tools on the image
- Read out temperature measurements
- Zoom in on images
- On the iPhone/iPad, remotely take snapshots when a camera is connected
- On the camera, take snapshots that will automatically be saved in the iPhone/iPad
- Delete any images on the iPhone/iPad
- Display an image's GPS coordinates on Google Maps
- Create and e-mail imagesheets
- Create and e-mail reports
- Print imagesheets and reports to any AirPrint-enabled printer
- Save images to iPhone/iPad photo library
- Send images to FTP sites and other file sharing services (Dropbox, Box.net, etc.)
- Display image information, such as object parameters, text comments, file information, etc.
- Play-back voice comments
- Change level and span
- Change general settings in the app
- Change palette

**P/N: APP-10003**

© 2015, FLIR Systems, Inc.  
#APP-10003; r. 24597; en-US

General description	
FLIR Tools Mobile lets you take control of the following features on selected cameras:	
<ul style="list-style-type: none"> <li>• Remote control of your FLIR camera.</li> <li>• Support for MSX (Multi-Spectral Dynamic Imaging) images.</li> <li>• Support for sketch images in both IR and visual with on/off toggling.</li> <li>• Support for same FOV ("Field of View Match").</li> <li>• Editable text comments.</li> <li>• Auto and manual focus</li> <li>• Level and span</li> <li>• Color palettes</li> <li>• Temperature measurement analytics</li> <li>• Spot</li> <li>• Area box</li> <li>• Circle</li> <li>• Line</li> <li>• Parameter settings</li> <li>• Emissivity</li> <li>• Reflected temperature</li> <li>• Relative humidity</li> <li>• Atmospheric temperature</li> <li>• IR and visible light image blending</li> <li>• Picture-in-picture</li> <li>• Thermal fusion</li> <li>• Image storage</li> <li>• MPEG 4 video</li> <li>• Radiometric JPEG stills</li> </ul>	
Download	
The application can be downloaded from App Store, see the link below.	
<a href="http://itunes.apple.com/app/flir-tools/id511247887?mt=8">http://itunes.apple.com/app/flir-tools/id511247887?mt=8</a>	
Release notes	
Version	1.5.0
New features	<p>Main improvements in version 1.5.0:</p> <ul style="list-style-type: none"> <li>• Updated for iOS7.</li> <li>• Improved Library.</li> </ul> <p>Main improvements in version 1.3.2:</p> <ul style="list-style-type: none"> <li>• Added remote viewer mode for T4xx and Exx series.</li> <li>• Improved support for anonymous FTP server.</li> <li>• Improved image import from photo gallery.</li> </ul> <p>Main improvements in version 1.3:</p> <ul style="list-style-type: none"> <li>• Support for fusion images.</li> <li>• Marking fusion images with the stacked icon in the library browser.</li> <li>• Switching image modes while editing fusion images.</li> <li>• Switch between fusion IR/DC and grouped images during preview.</li> <li>• Support for landscape and portrait images.</li> <li>• Image parameters can be modified only in edit mode.</li> <li>• Support for FLIR Exx-series cameras.</li> </ul>
System requirements	
Operating system	<ul style="list-style-type: none"> <li>• iOS 4.0 or later</li> </ul>
Hardware requirements	<ul style="list-style-type: none"> <li>• iPhone</li> <li>• iPad</li> <li>• iPod</li> </ul>

**Compatible with the following products**

- N/A

## P/N: T198567

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198567  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

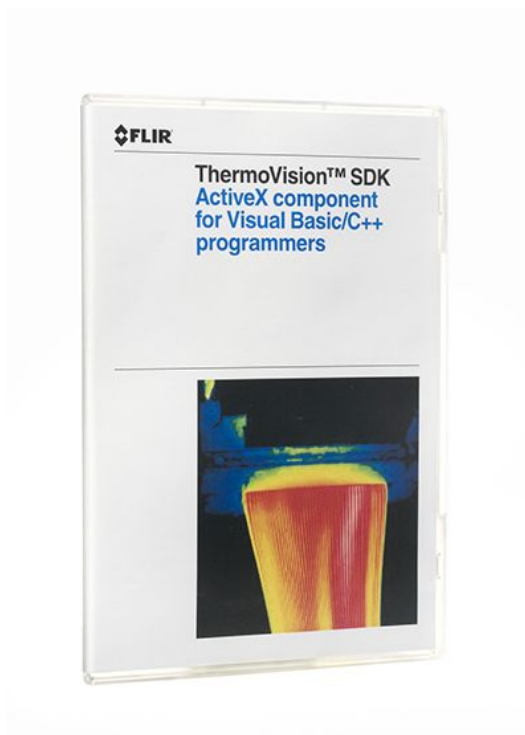
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
ThermoVision™ System Developers Kit	
Key features:	
<ul style="list-style-type: none"> <li>• Supports communication and broadcasting via FireWire™, Ethernet, and USB interfaces.</li> <li>• Gives the user full control of the camera.</li> <li>• Allows the user to set alarm conditions and measurement functions in the camera</li> <li>• Allows the user to define I/O functionality (FLIR A series).</li> <li>• Based on ActiveX technology.</li> <li>• Supports acquisition of images through FireWire™, Ethernet, and USB interfaces.</li> <li>• Reads from and writes to file in FLIR Systems' proprietary file format and writes to files in FLIR Systems' open floating point format (*.fpf).</li> <li>• Converts 16-bit absolute pixels into temperature pixels and several intermediate types of pixels formats, for maximum user flexibility. Applies to all camera models with temperature measurement capabilities.</li> <li>• Allows 16-bit temperature linear outputs from FLIR A series cameras.</li> <li>• Includes method that allows using individual emissivity value correction on any single pixel or condensed measuring value – e.g. average, minimum etc.</li> <li>• Supports conditional recording to file through FireWire™, Ethernet, and USB interfaces.</li> </ul>	
Users with licenses for the previous version can download a free upgrade via the following link: <a href="http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=62">http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=62</a>	
Release notes	
Version	ThermoVision 2.6 SP2
New features	<ul style="list-style-type: none"> <li>• — News in SP2:</li> <li>• Support for FLIR GF3XX series</li> <li>• Support for windowing in FLIR A615 and FLIR SC6x5</li> <li>• Support for windowing in FLIR SC6x0</li> <li>• Various bug fixes</li> </ul>
Shipping information	
Packaging, type	Cardboard box
Packaging, weight	0.132 kg (0.3 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)



**P/N: T198567**

© 2015, FLIR Systems, Inc.  
#T198567; r. 24597; en-US

Shipping information	
EAN-13	7332558005293
UPC-12	845188005504
Country of origin	Sweden

**Compatible with the following products**

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens



---

**P/N: T198567**

© 2015, FLIR Systems, Inc.  
#T198567; r. 24597; en-US

- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

## P/N: T198566

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198566  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

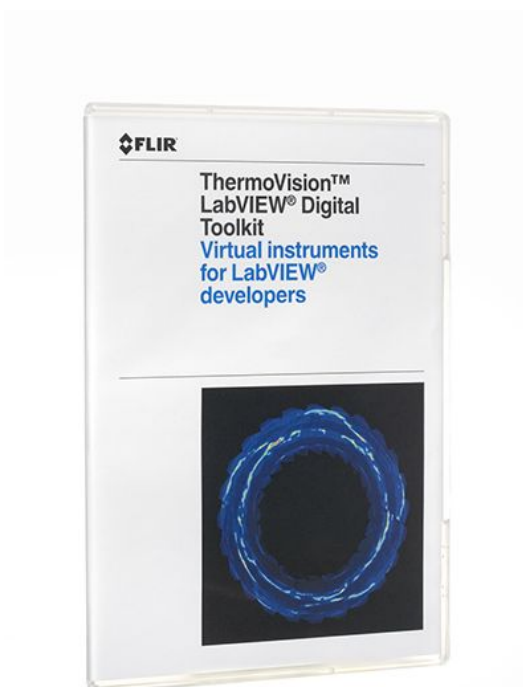
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
<p>The ThermoVision LabVIEW Toolkit is a set of VIs (virtual instruments) for cameras that support alarms, measurement functions, and I/O functionality.</p> <p>Through LabVIEW, you can use these VIs as sub-VIs to manage communications with a FLIR IR camera in digital mode.</p> <p>You can also generate true temperature images from images acquired through LabVIEW, and can use the LabVIEW IR Measurement and Display tools to analyze the temperatures of imaged objects.</p>	
Key features:	
<ul style="list-style-type: none"> <li>Set up communications between LabVIEW VI and a FLIR IR camera</li> <li>Capture and collect images via FireWire or Ethernet interfaces</li> <li>Adjust the camera configuration parameters and focus as you view a live image</li> <li>Control the camera calibration</li> <li>Send any other camera command to the camera</li> <li>Generate a true temperature image from a 16-bit image acquired using the camera's FireWire or Ethernet interfaces</li> <li>Close communications to the IR camera</li> </ul>	
<p>Users with licenses for the previous version can download a free upgrade via the following link:  <a href="http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=63">http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=63</a></p>	
Note: Only supports National Instrument 32-bit Labview	
Release notes	
Version	3.3
New features	<ul style="list-style-type: none"> <li>Windows 7 32- and 64-bit support</li> <li>Support for FLIR A615 and FLIR SC6X5 (including windowing)</li> <li>Support for windowing in FLIR SC660</li> <li>Various bug fixes</li> <li>New example VIs</li> </ul>
Shipping information	
Packaging, type	Cardboard box
Packaging, weight	0.133 kg (0.3 lb.)

**P/N: T198566**

© 2015, FLIR Systems, Inc.  
#T198566; r. 23306; en-US

Shipping information	
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005187
UPC-12	845188005399
Country of origin	Sweden

**Compatible with the following products**

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°



---

**P/N: T198566**

© 2015, FLIR Systems, Inc.  
#T198566; r. 23306; en-US

- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

**P/N: T199819**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: T199819  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The Extended Warranty Package covers parts and labour for your IR camera, consumables not included. FLIR Systems warrants its products to be free from defects caused by faulty material or poor workmanship, for a period specified above. **NO PRODUCT IS WARRANTED TO BE MERCHANTABLE OR FIT FOR ANY PARTICULAR USE OR APPLICATION.** The warranty is void if the buyer damages the item due to misuse, abuse, modification, processing, or integration with other items. FLIR Systems' maximum liability under this warranty is limited to the obligation to replace or, at its sole option, to credit Buyer's account up to the purchase price.

## Download

Contact info can be found at:

<http://support.flir.com>

## Compatible with the following products

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc

## P/N: T199803

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T199803  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

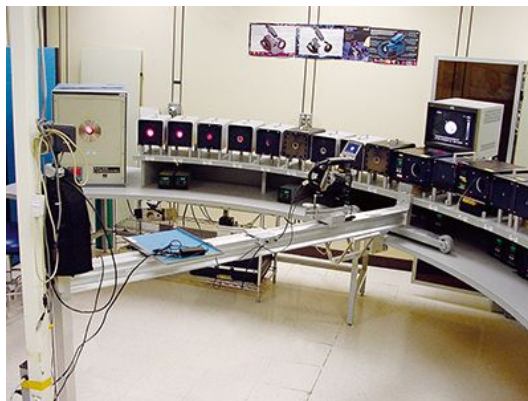
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

General Maintenance package offers a complete 14 points inspection and calibration service (for one lens combination). Shipping cost not included.

#### 14-point inspection program:

- Perform a complete operational check.
- Fusion calibration and laser alignment, when applicable.
- Verify all internal cable and PCB connections.
- Clean the viewfinder and check the optics.
- Upgrade the internal camera software to the latest revisions.
- Perform minor repairs.
- Verify and/or re-equalize as needed each temperature range for image uniformity.
- Verify standard lens calibration (optional: other or specially engineered lenses).
- Verify ambient temperature compensation as needed.
- Recalibration to ensure factory specifications are met.
- Calibrate temperature ranges up to +1500°C, when applicable.
- Perform a quality-approved acceptance test procedure.
- Provide a calibration label with the next due date.
- Provide a calibration certificate (optional: extended calibration certificate with measured values).

### Download

Contact info can be found at:

<http://support.flir.com>

### Compatible with the following products

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc

## P/N: ITC-ADV-3021

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3021  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This interdisciplinary course bridges the gap between IR thermography, background science and application theory. Being an overview course it deals with three main application fields of thermography: electrical, industrial, and building. For every application the participant will learn about the specific theory, typical faults, and how to detect them with a thermography camera. The student will also learn about the basics of condition monitoring, and maintenance.

Examples and case studies from the real world illustrate the course content and are discussed with the participants. Participants will be trained in discovering and identifying typical faults by typical thermal patterns.

### Content

- Introduction
- Electrical Applications (current, voltage, resistance, electrical systems, Ohm's law, some important properties of materials, typical faults, surveying methodology and criteria, safety, voltage limits)
- Industrial Applications (bearings, pumps, gears, belts, misalignment and couplings, gaskets, seals, rings, glands, steam traps, furnaces)
- Building Applications (definition of the building envelope, steady state thermal transfer in a building envelope, transient thermal transfer in a building envelope, applications)

### Course information

Available languages	
English	
Target group	
<ul style="list-style-type: none"> <li>• Professional thermographers holding a Level 1 or a Level 2 certificate and</li> <li>• with interest in increasing their knowledge of different thermographic applications, and their limitations or</li> <li>• with a special interest in condition monitoring of machines</li> </ul>	
Typical student	
<ul style="list-style-type: none"> <li>• Knows how to operate the camera</li> <li>• Knows how to report</li> <li>• Works in the industry with e.g. maintenance and condition monitoring or is a consultant</li> </ul>	
Pre-requisites	
<ul style="list-style-type: none"> <li>• Valid Level 1 thermography certificate</li> <li>• IR related education and experience</li> </ul>	



**P/N: ITC-ADV-3021**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3021; r. 23306; en-US

Course details	
Duration	3 days (24 hours)
Structure	The course is divided into the three parts: Electrical Applications, Industrial Applications, and Building Applications. Theory sessions and case studies including interactive discussions alternate.
Exam	A final exam (30 multiple choice questions) will be written on the 3d day in the afternoon. In connection, the correct answers will be discussed by the instructor and the participants.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Attendance of 1 person</li> <li>• Might include more, such as lunch, depending on location and organizing entity</li> </ul>
Course organization	
ITC	The Advanced General Thermography Course is offered worldwide by ITC as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary.
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Advanced General Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)

**P/N: ITC-ADV-3021**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3021; r. 23306; en-US

- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC

---

**P/N: ITC-ADV-3021**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3021; r. 23306; en-US

- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-ADV-3029

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3029  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This interdisciplinary course bridges the gap between IR thermography, background science and application theory. Being an overview course it deals with three main application fields of thermography: electrical, industrial, and building. For every application the participant will learn about the specific theory, typical faults, and how to detect them with a thermography camera. The student will also learn about the basics of condition monitoring, and maintenance.

Examples and case studies from the real world illustrate the course content and are discussed with the participants. Participants will be trained in discovering and identifying typical faults by typical thermal patterns.

### Content

- Introduction
- Electrical Applications (current, voltage, resistance, electrical systems, Ohm's law, some important properties of materials, typical faults, surveying methodology and criteria, safety, voltage limits)
- Industrial Applications (bearings, pumps, gears, belts, misalignment and couplings, gaskets, seals, rings, glands, steam traps, furnaces)
- Building Applications (definition of the building envelope, steady state thermal transfer in a building envelope, transient thermal transfer in a building envelope, applications)

### Course information

Available languages	
English	
Target group	<ul style="list-style-type: none"> <li>• Professional thermographers holding a Level 1 or a Level 2 certificate and</li> <li>• with interest in increasing their knowledge of different thermographic applications, and their limitations or</li> <li>• with a special interest in condition monitoring of machines</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Knows how to operate the camera</li> <li>• Knows how to report</li> <li>• Works in the industry with e.g. maintenance and condition monitoring or is a consultant</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Valid Level 1 thermography certificate</li> <li>• IR related education and experience</li> </ul>

**P/N: ITC-ADV-3029**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3029; r. 23306; en-US

Course details	
Duration	3 days (24 hours)
Structure	The course is divided into the three parts: Electrical Applications, Industrial Applications, and Building Applications. Theory sessions and case studies including interactive discussions alternate.
Exam	A final exam (30 multiple choice questions) will be written on the 3d day in the afternoon. In connection, the correct answers will be discussed by the instructor and the participants.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Attendance of a group up to 10 persons</li> <li>• Might include more, such as lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	The Advanced General Thermography Course is offered worldwide by ITC as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary.
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Advanced General Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)

**P/N: ITC-ADV-3029**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3029; r. 23306; en-US

- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL

---

**P/N: ITC-ADV-3029**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3029; r. 23306; en-US

- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-ADV-3061

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3061  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
ITC Advanced Thermal applications course - attendance 1 pers. (3 days)	
Course information	
Available languages	DACH only
Course details	
Duration	3 days

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)



**P/N: ITC-ADV-3061**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3061; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°



---

**P/N: ITC-ADV-3061**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3061; r. 23306; en-US

- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-ADV-3069

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3069  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
ITC Advanced Thermal applications course - group up to 10 pers. (3 days)	
Course information	
Available languages	DACH only
Course details	
Duration	3 days

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)

**P/N: ITC-ADV-3069**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3069; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°



**P/N: ITC-ADV-3069**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3069; r. 23306; en-US

- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-ADV-3041

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3041  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The core part (2 days) consists of lectures on theoretical subjects, plus hands-on. Additional days can be booked (ITC-ADV-3006). After a general review of heat and heat transfer, the participants will learn about radiative heat transfer. Starting with the standard measurement situation they will learn about the importance of emissivity and reflected apparent temperature. The participants will compute and estimate emissivity and do compensation for the reflected apparent temperature. They will also learn about calibration and Hypercal. Depending on the needs of the audience and the time available, additional topics to be covered can be measurement through windows, measurable figures of merit, signal generation, the influence of integration time, ROIC, etc., triggering and synchronization, and NUC and Bad Pixel Replacement.

### Content

- Introduction
- Review on thermal transfer
- Radiative heat transfer
- What does a camera see? Definition of a standard measurement situation
- Computing the emissivity. Estimating emissivity and T<sub>Refl</sub> (with practice)
- From radiation to signal
- Measurable figure of merits (with practice)
- Triggering and synchronization (additional content, upon request, with practice)
- Measuring through a window (additional content, upon request, with practice)
- Calibration (additional content, upon request, with practice)
- Spectral filters (additional content, upon request, with practice)
- NUC and Bad Pixels replacement (additional content, upon request, with practice)
- Transient, Lock-in and Pulse, basics of NDT (additional content, upon request)

### Labs

- Practice according to content listed above

### Course information

Available languages	English, other languages upon request
Target group	<ul style="list-style-type: none"> <li>• Users of FLIR cooled thermal cameras and systems (cameras connected to a PC with e.g. the software programs Altair, AltairLI or Thesa).</li> <li>• Users of un-cooled thermal cameras with interest in advanced thermal measurement applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Laboratory and industry technical personnel</li> <li>• Researchers and scientists</li> <li>• University students</li> <li>• Persons working with NDT</li> </ul>

**P/N: ITC-ADV-3041**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3041; r. 23306; en-US

Course information	
Pre-requisites	<ul style="list-style-type: none"> <li>None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Basic knowledge about thermography and related parameters.</li> <li>Experience in measurement techniques and general software skills.</li> </ul>
Course details	
Duration	Standard: 2 days (in succession or separate) Upon request: Additional day including complementary topics (ITC-ADV-3006) Upon request: 1 day only (for experienced users with sufficient theoretical background)
Structure	Theory and hands-on
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training and/or reference material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as lunch or refreshments, depending on location and the organizing entity</li> </ul>
Note	This is normally an on-site course organized at a customer's facility. For open classes, please contact your closest ITC, ITC partner or FLIR sales representative.
Course organization	
ITC	The course "ITC Advanced Thermal Measurements (R&D)" is offered by ITC direct operations in EMEA. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The course "ITC Advanced Thermal Measurements (R&D)" is delivered by ITC qualified instructors having the relevant expertise in advanced thermal measurement, infrared applications, and the use of the camera equipment including software programs.

**Compatible with the following products**

- 42901-1001; FLIR A305sc
- 48001-1001; FLIR A325sc
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-ADV-3046

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3046  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The core part (2 days) consists of lectures on theoretical subjects, plus hands-on. Additional days can be booked (ITC-ADV-3006). After a general review of heat and heat transfer, the participants will learn about radiative heat transfer. Starting with the standard measurement situation they will learn about the importance of emissivity and reflected apparent temperature. The participants will compute and estimate emissivity and do compensation for the reflected apparent temperature. They will also learn about calibration and Hypercal. Depending on the needs of the audience and the time available, additional topics to be covered can be measurement through windows, measurable figures of merit, signal generation, the influence of integration time, ROIC, etc., triggering and synchronization, and NUC and Bad Pixel Replacement.

### Content

- Introduction
- Review on thermal transfer
- Radiative heat transfer
- What does a camera see? Definition of a standard measurement situation
- Computing the emissivity. Estimating emissivity and T<sub>Refl</sub> (with practice)
- From radiation to signal
- Measurable figure of merits (with practice)
- Triggering and synchronization (additional content, upon request, with practice)
- Measuring through a window (additional content, upon request, with practice)
- Calibration (additional content, upon request, with practice)
- Spectral filters (additional content, upon request, with practice)
- NUC and Bad Pixels replacement (additional content, upon request, with practice)
- Transient, Lock-in and Pulse, basics of NDT (additional content, upon request)

### Labs

- Practice according to content listed above

### Course information

Available languages	English, other languages upon request
Target group	<ul style="list-style-type: none"> <li>• Users of FLIR cooled thermal cameras and systems (cameras connected to a PC with e.g. the software programs Altair, AltairLI or Thesa).</li> <li>• Users of un-cooled thermal cameras with interest in advanced thermal measurement applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Laboratory and industry technical personnel</li> <li>• Researchers and scientists</li> <li>• University students</li> <li>• Persons working with NDT</li> </ul>



**P/N: ITC-ADV-3046**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3046; r. 23306; en-US

Course information	
Pre-requisites	<ul style="list-style-type: none"> <li>None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Basic knowledge about thermography and related parameters.</li> <li>Experience in measurement techniques and general software skills.</li> </ul>
Course details	
Duration	Standard: 2 days (in succession or separate) Upon request: Additional day including complementary topics (ITC-ADV-3006) Upon request: 1 day only (for experienced users with sufficient theoretical background)
Structure	Theory and hands-on
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training and/or reference material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 6 persons</li> <li>Might include more, such as lunch, refreshments, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Note	This is normally an on-site course organized at a customer's facility. The fee does not include costs for instructor's travelling or lodging. The customer is responsible for providing access to the equipment or objects that should be analyzed or measured, a suitable meeting room, and preferably also refreshments/lunch.
Course organization	
ITC	The course "ITC Advanced Thermal Measurements (R&D)" is offered by ITC direct operations in EMEA. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The course "ITC Advanced Thermal Measurements (R&D)" is delivered by ITC qualified instructors having the relevant expertise in advanced thermal measurement, infrared applications, and the use of the camera equipment including software programs.

**Compatible with the following products**

- 42901-1001; FLIR A305sc
- 48001-1001; FLIR A325sc
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-ADV-3006

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3006  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
An additional day can be booked when the customer wants to extend the training content, software exercises or guided field practice.	
The third day can be added to the following courses:	
ITC-ADV-3046	
Content	
<ul style="list-style-type: none"> <li>Customized, build on the topics of the course prior to the additional day</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized, depending on the equipment used and the application of interest</li> </ul>	
Course information	
Available languages	English, other languages upon demand
Target group	<ul style="list-style-type: none"> <li>Participants of advanced courses that are delivered on-site</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with special interests in the equipment and their application requesting in-depth training or additional guidance.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Please refer to the pre-requisites of the course prior to the additional day</li> </ul>
Course details	
Duration	1 day
Structure	Customized upon the customer's request
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>ITC qualified instructor teaching the class</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 6 persons</li> <li>Might include more, such as lunch, refreshments, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>



**P/N: ITC-ADV-3006**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3006; r. 23306; en-US

Course organization	
ITC	Additional days are offered by the ITC or ITC partner arranging the respective standard class prior to the additional day. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Additional days are normally lectured by the same ITC trainers lecturing the standard class prior to the additional day.

**Compatible with the following products**

- 42901-1001; FLIR A305sc
- 48001-1001; FLIR A325sc
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-CON-1001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CON-1001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

ITC conference fee

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-CON-1001**

© 2015, FLIR Systems, Inc.

#ITC-CON-1001; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-CON-1001**

© 2015, FLIR Systems, Inc.

#ITC-CON-1001; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-EXP-1041

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1041  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This is a special day emphasizing on specifications of equipment towards the particularities of applications (for instance triggering or high speed). It addresses mainly the needs of high-end camera users in the scientific or industrial fields.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, French, other languages upon request
Target group	<ul style="list-style-type: none"> <li>Highly specialized users with advanced and scientific applications as well as persons interested in these applications and related infrared equipment.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Researchers</li> <li>Scientists</li> <li>University students</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Basic knowledge about thermography and related parameters.</li> <li>Experience in measurement techniques and general software skills.</li> </ul>
Course details	
Duration	Typically 1 day
Structure	Theory and hands-on, depending on topics
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material</li> <li>Diploma of attendance</li> </ul>
Note	This course is typically organized at the customer's site. Course fee does not include cost for instructor's travelling or lodging. The customer is responsible for providing a suitable classroom and preferably also refreshments/lunch.

**P/N: ITC-EXP-1041**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1041; r. 23306; en-US

Course organization	
ITC	ITC customized workshops are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	ITC customized workshops are lectured by ITC qualified specialists having the relevant expertise in the workshop's subject and the related fields of application.

**Compatible with the following products**

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC



**P/N: ITC-EXP-1041**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1041; r. 23306; en-US

- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

## P/N: ITC-EXP-1050

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1050  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Consultancy can be described as any action or arrangement that is not strictly a training course. Most likely, a thermal camera will be involved. It can be, but is not restricted to:

- Pre-sales equipment or software demonstration over the normal extend
- Equipment and software demonstration and explanation over the normal extend
- Advanced technical support
- Application support
- Comparative study involving a camera, either alone or in conjunction with other instruments
- General measurements in a difficult or unusual situation

### Content

- Customized

### Labs

- Customized

### Course information

Available languages	English, French, other languages upon request
Target group	<ul style="list-style-type: none"> <li>• Advanced users who wish to receive an in-depth guidance to complex problems related to infrared equipment, applications, and measurement questions.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Industry technical personnel</li> <li>• Researchers</li> <li>• Scientists</li> <li>• University students</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic knowledge about thermography and related parameters.</li> <li>• Experience in measurement techniques and general software skills.</li> </ul>

### Course details

Duration	Typically 1 day
Structure	Theory and hands-on, depending on topics

**P/N: ITC-EXP-1050**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1050; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Consultancy by qualified ITC specialist</li> <li>Training and/or reference material</li> </ul>
Note	Consultancy is typically carried out at the customer's site. The fee does not include costs for instructor's travelling or lodging. The customer is responsible for providing access to the equipment or objects that should be analyzed or measured, a suitable meeting room, and preferably also refreshments/lunch.
Course organization	
ITC	ITC consultancy is offered by ITC in EMEA. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	ITC consultancy is delivered by ITC qualified specialists having the relevant expertise in infrared measurement and the related fields of application.

**Compatible with the following products**

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°

**P/N: ITC-EXP-1050**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1050; r. 23306; en-US

- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

## P/N: ITC-PRO-2004

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-PRO-2004  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The core part (2 days) consists of lectures on theoretical subjects, plus hands-on. After a general review of heat and heat transfer, the participants will learn about radiative heat transfer. Starting with the standard measurement situation they will learn about the importance of emissivity and reflected apparent temperature. The participants will compute and estimate emissivity and do compensation for the reflected apparent temperature. They will also learn about calibration and Hypercal. Depending on the needs of the audience and the time available, additional topics to be covered can be measurement through windows, measurable figures of merit, signal generation, the influence of integration time, ROIC, etc., triggering and synchronization, and NUC and Bad Pixel Replacement.

### Content

- Introduction
- Review on thermal transfer
- Radiative heat transfer
- What does a camera see? Definition of a standard measurement situation
- Computing the emissivity. Estimating emissivity and T<sub>Refl</sub> (with practice)
- From radiation to signal
- Measurable figure of merits (with practice)
- Triggering and synchronization (additional content, upon request, with practice)
- Measuring through a window (additional content, upon request, with practice)
- Calibration (additional content, upon request, with practice)
- Spectral filters (additional content, upon request, with practice)
- NUC and Bad Pixels replacement (additional content, upon request, with practice)
- Transient, Lock-in and Pulse, basics of NDT (additional content, upon request)

### Labs

- Practice according to content listed above

### Course information

Available languages	English, other languages upon request
Target group	<ul style="list-style-type: none"> <li>• Users of FLIR cooled thermal cameras and systems (cameras connected to a PC with e.g. the software programs Altair, AltairLI or Thesa).</li> <li>• Users of un-cooled thermal cameras with interest in advanced thermal measurement applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Laboratory and industry technical personnel</li> <li>• Researchers and scientists</li> <li>• University students</li> <li>• Persons working with NDT</li> </ul>

**P/N: ITC-PRO-2004**

© 2015, FLIR Systems, Inc.

#ITC-PRO-2004; r. 23306; en-US

Course information	
Pre-requisites	<ul style="list-style-type: none"> <li>None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Basic knowledge about thermography and related parameters.</li> <li>Experience in measurement techniques and general software skills.</li> </ul>
Course details	
Duration	Standard: 2 days Upon request: Additional day including complementary topics Upon request: 1 day only (for experienced users with sufficient theoretical background)
Structure	Theory and hands-on
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training and/or reference material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 4 persons</li> <li>Might include more, such as lunch, refreshments, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Note	This is normally an on-site course organized at a customer's facility. The fee does not include costs for instructor's travelling or lodging. The customer is responsible for providing access to the equipment or objects that should be analyzed or measured, a suitable meeting room, and preferably also refreshments/lunch.
Course organization	
ITC	The course "ITC In-house R&D training ATS products" is offered by ITC direct operations in EMEA. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The course "ITC In-house R&D training ATS products" is delivered by ITC qualified instructors having the relevant expertise in advanced thermal measurement, infrared applications, and the use of the camera equipment including software programs.

**Compatible with the following products**

- 42901-1001; FLIR A305sc
- 48001-1001; FLIR A325sc
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-EXP-1021

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1021  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

An on-site training can be customized upon your needs. The participants will learn about IR thermography, inspections, measurements, applications, and reporting corresponding to the level needed for performing measurements and inspection in their working environment. The trainer will give useful advice on how to best implement IR thermography in your business.

This partnumber is reserved for adding additional students to an on site class.

### Content

- An on-site course can be any course, from a 1-day introduction to general thermography, over a customized application course to a complete certification course.

### Labs

- Portable classroom labs
- Field training on the site in agreement with the customer

### Course information

Available languages	English, Dutch, German, French, Italian, Spanish, Swedish, other languages upon request
Target group	<ul style="list-style-type: none"> <li>• Employees of a company or certain departments who would like to minimize travel costs and receive the training directly on their daily working site.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>

### Course details

Duration	Customized or according to the kind of course the in-house training is equivalent to.
Structure	Theory, camera handling, demos, practical labs and field training alternate.

**P/N: ITC-EXP-1021**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1021; r. 23306; en-US

Course details	
Exam	Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> </ul>
Course organization	
ITC	ITC In-house courses are offered worldwide by ITC and partners as listed. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	ITC In-house courses are lectured by ITC qualified instructors with experience in the relevant fields of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm



**P/N: ITC-EXP-1021**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1021; r. 23306; en-US

- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°

**P/N: ITC-EXP-1021**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1021; r. 23306; en-US

- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-1029

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1029  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
An on-site training can be customized upon your needs. The participants will learn about IR thermography, inspections, measurements, applications, and reporting corresponding to the level needed for performing measurements and inspection in their working environment. The trainer will give useful advice on how to best implement IR thermography in your business.	
Content	
<ul style="list-style-type: none"> <li>An on-site course can be any course, from a 1-day introduction to general thermography, over a customized application course to a complete certification course.</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Portable classroom labs</li> <li>Field training on the site in agreement with the customer</li> </ul>	
Course information	
Available languages	English, Dutch, German, French, Italian, Spanish, Swedish, other languages upon request
Target group	<ul style="list-style-type: none"> <li>Employees of a company or certain departments who would like to minimize travel costs and receive the training directly on their daily working site.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>
Course details	
Duration	Customized or according to the kind of course the in-house training is equivalent to.
Structure	Theory, camera handling, demos, practical labs and field training alternate.
Exam	Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.

**P/N: ITC-EXP-1029**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1029; r. 23306; en-US

Course details	
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> </ul>
Note	Course fee does not include cost for instructor's travelling or lodging. When organized at the customers' site, the customer is responsible for providing a suitable classroom and preferably also refreshments/lunch.
Course organization	
ITC	ITC In-house courses are offered worldwide by ITC and partners as listed. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	ITC In-house courses are lectured by ITC qualified instructors with experience in the relevant fields of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)

**P/N: ITC-EXP-1029**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1029; r. 23306; en-US

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL

**P/N: ITC-EXP-1029**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1029; r. 23306; en-US

- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-CER-5105

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5105  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 1 certified thermographer. The participant will learn about the basics of infrared, how to operate the camera under different conditions and for various purposes, how to do an appropriate judgement of the measurement situation in the field and how to identify potential error sources. After the class, the participant will be able to do IR inspections following written guidelines and to report the result of this inspection.

This partnumber is reserved for adding additional students to a level 1 on site class.

### Content

- Introduction to Thermography
- Camera Operation
- Basic physics of heat
- Basic physics of infrared
- Thermal pattern recognition and IR applications
- IR temperature measurement techniques
- Qualitative and quantitative thermography
- Inspection routines and reporting

### Student presentations

During the seminar, students will generate a small case study based on the lab exercises to be presented to the class.

### Labs

- Camera handling
- Level and Span
- Conduction pattern
- Forced convection
- Direct and indirect thermal measurement
- Thermal capacity
- Steady state and transient heat flow
- Evaporation and condensation
- Electrical application
- Emissivity and Reflected apparent temperature
- Spatial resolution
- Location and temperature measurement of a hot/cold spot
- Image transfer to the computer

**P/N: ITC-CER-5105**

© 2015, FLIR Systems, Inc.

#ITC-CER-5105; r. 23306; en-US

Course information	
Available languages	Chinese, Danish, Dutch, English, Finish, French, German, Greek, Hebrew, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (bra.), Romanian, Russian, Serbo-Croatian, Spanish, Swedish, Thai
Target group	<ul style="list-style-type: none"> <li>Practical user</li> <li>This course is designed for beginners in thermography with some experience in camera handling and limited IR knowledge, who want to take their first step to become a professional thermographer and want to qualify as a Level 1 certified thermographer.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>having already some basic experience with IR thermography,</li> <li>knowing the basic functions of the camera,</li> <li>who wants to become a certified thermographer in order to gain a competitive advantage or who needs the certifications because of legal reasons or company internal regulations.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Be familiar with the basic operation of an infrared camera</li> <li>Have the recommended experience within thermography according to relevant standards</li> </ul>

Course details	
Duration	35 – 40 hours
Structure	Theory and camera practice (hands-on) alternate every day, additional labs and software exercises at some days.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>Attendance of 1 person</li> <li>Might include more, such as lunch, depending on location and organizing entity</li> </ul>
Note	Only for non-EURO, non-SEK, non NOK, non- £, -non CHF countries

Course organization	
ITC	The Level 1 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)



**P/N: ITC-CER-5105**

© 2015, FLIR Systems, Inc.

#ITC-CER-5105; r. 23306; en-US

- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc

**P/N: ITC-CER-5105**

© 2015, FLIR Systems, Inc.

#ITC-CER-5105; r. 23306; en-US

- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-CER-5101

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5101  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 1 certified thermographer. The participant will learn about the basics of infrared, how to operate the camera under different conditions and for various purposes, how to do an appropriate judgement of the measurement situation in the field and how to identify potential error sources. After the class, the participant will be able to do IR inspections following written guidelines and to report the result of this inspection.

### Content

- Introduction to Thermography
- Camera Operation
- Basic physics of heat
- Basic physics of infrared
- Thermal pattern recognition and IR applications
- IR temperature measurement techniques
- Qualitative and quantitative thermography
- Inspection routines and reporting

### Student presentations

During the seminar, students will generate a small case study based on the lab exercises to be presented to the class.

### Labs

- Camera handling
- Level and Span
- Conduction pattern
- Forced convection
- Direct and indirect thermal measurement
- Thermal capacity
- Steady state and transient heat flow
- Evaporation and condensation
- Electrical application
- Emissivity and Reflected apparent temperature
- Spatial resolution
- Location and temperature measurement of a hot/cold spot
- Image transfer to the computer

**P/N: ITC-CER-5101**

© 2015, FLIR Systems, Inc.

#ITC-CER-5101; r. 23306; en-US

Course information	
Available languages	Chinese, Danish, Dutch, English, Finish, French, German, Greek, Hebrew, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (bra.), Romanian, Russian, Serbo-Croatian, Spanish, Swedish, Thai
Target group	<ul style="list-style-type: none"> <li>Practical user</li> <li>This course is designed for beginners in thermography with some experience in camera handling and limited IR knowledge, who want to take their first step to become a professional thermographer and want to qualify as a Level 1 certified thermographer.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>having already some basic experience with IR thermography,</li> <li>knowing the basic functions of the camera,</li> <li>who wants to become a certified thermographer in order to gain a competitive advantage or who needs the certifications because of legal reasons or company internal regulations.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Be familiar with the basic operation of an infrared camera</li> <li>Have the recommended experience within thermography according to relevant standards</li> </ul>

Course details	
Duration	35 – 40 hours
Structure	Theory and camera practice (hands-on) alternate every day, additional labs and software exercises at some days.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>Attendance of 1 person</li> <li>Might include more, such as lunch, depending on location and organizing entity</li> </ul>

Course organization	
ITC	The Level 1 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)

**P/N: ITC-CER-5101**

© 2015, FLIR Systems, Inc.

#ITC-CER-5101; r. 23306; en-US

- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)

**P/N: ITC-CER-5101**

© 2015, FLIR Systems, Inc.

#ITC-CER-5101; r. 23306; en-US

- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-CER-5109

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5109  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 1 certified thermographer. The participant will learn about the basics of infrared, how to operate the camera under different conditions and for various purposes, how to do an appropriate judgement of the measurement situation in the field and how to identify potential error sources. After the class, the participant will be able to do IR inspections following written guidelines and to report the result of this inspection.

### Content

- Introduction to Thermography
- Camera Operation
- Basic physics of heat
- Basic physics of infrared
- Thermal pattern recognition and IR applications
- IR temperature measurement techniques
- Qualitative and quantitative thermography
- Inspection routines and reporting

### Student presentations

During the seminar, students will generate a small case study based on the lab exercises to be presented to the class.

### Labs

- Camera handling
- Level and Span
- Conduction pattern
- Forced convection
- Direct and indirect thermal measurement
- Thermal capacity
- Steady state and transient heat flow
- Evaporation and condensation
- Electrical application
- Emissivity and Reflected apparent temperature
- Spatial resolution
- Location and temperature measurement of a hot/cold spot
- Image transfer to the computer

**P/N: ITC-CER-5109**

© 2015, FLIR Systems, Inc.

#ITC-CER-5109; r. 23306; en-US

Course information	
Available languages	Chinese, Danish, Dutch, English, Finish, French, German, Greek, Hebrew, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (bra.), Romanian, Russian, Serbo-Croatian, Spanish, Swedish, Thai
Target group	<ul style="list-style-type: none"> <li>• Practical user</li> <li>• This course is designed for beginners in thermography with some experience in camera handling and limited IR knowledge, who want to take their first step to become a professional thermographer and want to qualify as a Level 1 certified thermographer.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>• having already some basic experience with IR thermography,</li> <li>• knowing the basic functions of the camera,</li> <li>• who wants to become a certified thermographer in order to gain a competitive advantage or who needs the certifications because of legal reasons or company internal regulations.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Be familiar with the basic operation of an infrared camera</li> <li>• Have the recommended experience within thermography according to relevant standards</li> </ul>

Course details	
Duration	35 – 40 hours
Structure	Theory and camera practice (hands-on) alternate every day, additional labs and software exercises at some days.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>• Attendance of a group up to 10 persons</li> <li>• Might include more, such as lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>

Course organization	
ITC	The Level 1 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)



**P/N: ITC-CER-5109**

© 2015, FLIR Systems, Inc.

#ITC-CER-5109; r. 23306; en-US

- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310

**P/N: ITC-CER-5109**

© 2015, FLIR Systems, Inc.

#ITC-CER-5109; r. 23306; en-US

- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-CER-5205

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5205  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 2 certified thermographer. The participant will learn about topics in infrared thermography to increase the knowledge about infrared physics, heat science, infrared measurement equipment and its application. As a Level 2 thermographer the participant shall provide guidance to category 1 personnel in the areas of equipment selection, techniques, limitations, data analysis, corrective actions and reporting.

This partnumber is reserved for adding additional students to a level 2 on site class.

### Content

- Thermal science
- Heat transfer
- Temperature measurement
- Infrared science
- IR equipment and applications

### Student presentations

During the seminar, students shall present a prepared case study to the class. The maximum duration (excl. discussion) should be 7 minutes and the maximum number of 7 slides should not be exceeded.

### Labs (Note: Labs marked "(M)" are mandatory)

- Newton's law (class lab) (M)
- Advanced emissivity measurement (M)
- Variation of emissivity with the angle (M)
- Transient thermal transfer
- Indirect power measurement (M)
- IR-window transmission (M)
- Slit Response Function
- Hole Response Function (M)
- Parallel circuits

### Course information

#### Available languages

Dutch, English, German, French, Italian, Portuguese (bra.), Spanish, Swedish

#### Target group

- Professional user
- This course is designed for thermographers holding a Level 1 certificate, who want to increase their knowledge about IR thermography and who want to qualify as a Level 2 certified thermographer.

**P/N: ITC-CER-5205**

© 2015, FLIR Systems, Inc.

#ITC-CER-5205; r. 23306; en-US

Course information	
Typical student	<ul style="list-style-type: none"> <li>A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>having several months of professional experience within thermography,</li> <li>versed in camera operation and reporting,</li> <li>holding a Level 1 certificate,</li> <li>who needs the Level 2 Certification for guidance and supervision of other thermographers or is interested in deeper understanding of IR thermography.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Valid Level 1 thermography certificate,</li> <li>Recommended experience within thermography according to relevant standards,</li> <li>Prepared case study to be presented at the Level 2 course and submitted towards qualification at course closing.</li> </ul>

Course details	
Duration	40 hours
Structure	Theory, camera practice (hands-on), and prepared case studies alternate every day.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>Attendance of 1 person</li> <li>Might include more, such as lunch, depending on location and organizing entity.</li> </ul>
Note	Only for non-EURO, non-SEK, non NOK, non- £, -non CHF countries

Course organization	
ITC	The Level 2 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in T560393 Courses offered by ITC partners. Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)

**P/N: ITC-CER-5205**

© 2015, FLIR Systems, Inc.

#ITC-CER-5205; r. 23306; en-US

- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°

**P/N: ITC-CER-5205**

© 2015, FLIR Systems, Inc.

#ITC-CER-5205; r. 23306; en-US

- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-CER-5201

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5201  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 2 certified thermographer. The participant will learn about topics in infrared thermography to increase the knowledge about infrared physics, heat science, infrared measurement equipment and its application. As a Level 2 thermographer the participant shall provide guidance to category 1 personnel in the areas of equipment selection, techniques, limitations, data analysis, corrective actions and reporting.

#### Content

- Thermal science
- Heat transfer
- Temperature measurement
- Infrared science
- IR equipment and applications

#### Student presentations

During the seminar, students shall present a prepared case study to the class. The maximum duration (excl. discussion) should be 7 minutes and the maximum number of 7 slides should not be exceeded.

#### Labs (Note: Labs marked "(M)" are mandatory)

- Newton's law (class lab) (M)
- Advanced emissivity measurement (M)
- Variation of emissivity with the angle (M)
- Transient thermal transfer
- Indirect power measurement (M)
- IR-window transmission (M)
- Slit Response Function
- Hole Response Function (M)
- Parallel circuits

### Course information

#### Available languages

Dutch, English, German, French, Italian, Portuguese (bra.), Spanish, Swedish

#### Target group

- Professional user
- This course is designed for thermographers holding a Level 1 certificate, who want to increase their knowledge about IR thermography and who want to qualify as a Level 2 certified thermographer.

**P/N: ITC-CER-5201**

© 2015, FLIR Systems, Inc.

#ITC-CER-5201; r. 23306; en-US

Course information	
Typical student	<ul style="list-style-type: none"> <li>A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>having several months of professional experience within thermography,</li> <li>versed in camera operation and reporting,</li> <li>holding a Level 1 certificate,</li> <li>who needs the Level 2 Certification for guidance and supervision of other thermographers or is interested in deeper understanding of IR thermography.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Valid Level 1 thermography certificate,</li> <li>Recommended experience within thermography according to relevant standards,</li> <li>Prepared case study to be presented at the Level 2 course and submitted towards qualification at course closing.</li> </ul>
Course details	
Duration	40 hours
Structure	Theory, camera practice (hands-on), and prepared case studies alternate every day.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>Attendance of 1 person</li> <li>Might include more, such as lunch, depending on location and organizing entity.</li> </ul>
Course organization	
ITC	The Level 2 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in T560393 Courses offered by ITC partners. Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)



**P/N: ITC-CER-5201**

© 2015, FLIR Systems, Inc.

#ITC-CER-5201; r. 23306; en-US

- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°

**P/N: ITC-CER-5201**

© 2015, FLIR Systems, Inc.

#ITC-CER-5201; r. 23306; en-US

- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-CER-5209

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5209  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 2 certified thermographer. The participant will learn about topics in infrared thermography to increase the knowledge about infrared physics, heat science, infrared measurement equipment and its application. As a Level 2 thermographer the participant shall provide guidance to category 1 personnel in the areas of equipment selection, techniques, limitations, data analysis, corrective actions and reporting.

#### Content

- Thermal science
- Heat transfer
- Temperature measurement
- Infrared science
- IR equipment and applications

#### Student presentations

During the seminar, students shall present a prepared case study to the class. The maximum duration (excl. discussion) should be 7 minutes and the maximum number of 7 slides should not be exceeded.

#### Labs (Note: Labs marked "(M)" are mandatory)

- Newton's law (class lab) (M)
- Advanced emissivity measurement (M)
- Variation of emissivity with the angle (M)
- Transient thermal transfer
- Indirect power measurement (M)
- IR-window transmission (M)
- Slit Response Function
- Hole Response Function (M)
- Parallel circuits

### Course information

#### Available languages

Dutch, English, German, French, Italian, Portuguese (bra.), Spanish, Swedish

#### Target group

- Professional user
- This course is designed for thermographers holding a Level 1 certificate, who want to increase their knowledge about IR thermography and who want to qualify as a Level 2 certified thermographer.

**P/N: ITC-CER-5209**

© 2015, FLIR Systems, Inc.

#ITC-CER-5209; r. 23306; en-US

Course information	
Typical student	<ul style="list-style-type: none"> <li>A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>having several months of professional experience within thermography,</li> <li>versed in camera operation and reporting,</li> <li>holding a Level 1 certificate,</li> <li>who needs the Level 2 Certification for guidance and supervision of other thermographers or is interested in deeper understanding of IR thermography.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Valid Level 1 thermography certificate,</li> <li>Recommended experience within thermography according to relevant standards,</li> <li>Prepared case study to be presented at the Level 2 course and submitted towards qualification at course closing.</li> </ul>
Course details	
Duration	40 hours
Structure	Theory, camera practice (hands-on), and prepared case studies alternate every day.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as lunch, instructor's travel expenses, etc. depending on location and organizing entity.</li> </ul>
Course organization	
ITC	The Level 2 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in T560393 Courses offered by ITC partners. Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)

**P/N: ITC-CER-5209**

© 2015, FLIR Systems, Inc.

#ITC-CER-5209; r. 23306; en-US

- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°

**P/N: ITC-CER-5209**

© 2015, FLIR Systems, Inc.

#ITC-CER-5209; r. 23306; en-US

- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-EXP-2036

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2036  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This 2-day course consists of lectures on theoretical subjects, plus hands-on.	
After a general review of heat and heat transfer, the participants will learn about radiative heat transfer, and thermography equipment. Intensive practice is performed on software.	
Content	
<ul style="list-style-type: none"> <li>• Introduction</li> <li>• Review on thermal transfer</li> <li>• Radiative heat transfer (includes estimation of T<sub>Refl</sub> and the emissivity) (with practice)</li> <li>• Thermography equipment</li> <li>• Software e.g. ThermoCAM Researcher, FLIR Quickplot or FLIR ResearchIR</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>• Measurements and software exercises</li> </ul>	
Course information	
Available languages	English, other languages upon request
Target group	<ul style="list-style-type: none"> <li>• Users of FLIR uncooled thermal cameras working with software programs as ThermoCAM Researcher, FLIR Quickplot or FLIR ResearchIR</li> <li>• and with infrared applications in the industry or at research institutions.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Laboratory and industry technical personnel</li> <li>• Researchers and scientists</li> <li>• University students</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic knowledge about thermography and related parameters.</li> <li>• Experience in measurement techniques and general software skills.</li> </ul>
Course details	
Duration	Standard: 2 days (in succession or separate) Upon request: Additional day including complementary topics (ITC-EXP-3006) Upon request: 1 day only (for experienced users with sufficient theoretical background)
Structure	Theory and hands-on

**P/N: ITC-EXP-2036**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2036; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training and/or reference material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 6 persons</li> </ul>
Note	This is normally an on-site course organized at a customer's facility. The fee does not include costs for instructor's travelling or lodging. The customer is responsible for providing access to the equipment or objects that should be analyzed or measured, a suitable meeting room, and preferably also refreshments/lunch.
Course organization	
ITC	The course "ITC R&D basics for industry users" is offered by ITC direct operations in EMEA. Specific customer requests shall be forwarded to the closest ITC or ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The course "ITC R&D basics for industry users" is delivered by ITC qualified instructors having the relevant expertise in advanced thermal measurement, infrared applications, and the use of the camera equipment including software programs.

**Compatible with the following products**

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°



**P/N: ITC-EXP-2036**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2036; r. 23306; en-US

- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-EXP-2025

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2025  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This full 2-day course aims at explaining how to set-up a procedure for the temperature control of population. It is designed for persons who might have to implement a control (medical authorities, customs, civil security, etc). It starts with a brief, but necessary, reminder of thermal transfers and of the fundamentals of thermography. Key factors such as NETD, drift and drift compensation, baseline measurement and update, and the factors influencing the diagnosis are explained in details. Camera setup is included. ITC recommends organizing it simultaneously to a real-size test (airport, ferry-port, seaport, river port, stadium, etc.).

This partnumber is reserved for adding additional students to a fever screening on site class.

### Content

- Introduction
- Human physiological factors
- Basic thermography
- IR Camera basics
- Fever screening methodology

### Labs

- Emissivity and Trefl
- Camera settings
- Influence of the object size on the measurement

### Course information

Available languages	English
Target group	<ul style="list-style-type: none"> <li>• Persons with professional interest in human febrile temperature screening.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Airline operative personnel</li> <li>• Reception personnel</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic technical understanding</li> <li>• Should be organized with a real-size test in the field</li> </ul>

### Course details

Duration	2 days
Structure	Theory, camera handling, demos in the morning and practical labs alternate.

**P/N: ITC-EXP-2025**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2025; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>
Course organization	
ITC	The "ITC Short Course Fever Screening" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Fever Screening" is lectured by qualified ITC instructors with special experience in human febrile temperature screening.

**Compatible with the following products**

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL

---

**P/N: ITC-EXP-2025**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2025; r. 23306; en-US

- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-EXP-2021

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2021  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This full 2-day course aims at explaining how to set-up a procedure for the temperature control of population. It is designed for persons who might have to implement a control (medical authorities, customs, civil security, etc). It starts with a brief, but necessary, reminder of thermal transfers and of the fundamentals of thermography. Key factors such as NETD, drift and drift compensation, baseline measurement and update, and the factors influencing the diagnosis are explained in details. Camera setup is included. ITC recommends organizing it simultaneously to a real-size test (airport, ferry-port, seaport, river port, stadium, etc.).

### Content

- Introduction
- Human physiological factors
- Basic thermography
- IR Camera basics
- Fever screening methodology

### Labs

- Emissivity and Trefl
- Camera settings
- Influence of the object size on the measurement

### Course information

Available languages	English
Target group	<ul style="list-style-type: none"> <li>• Persons with professional interest in human febrile temperature screening.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Airline operative personnel</li> <li>• Reception personnel</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic technical understanding</li> <li>• Should be organized with a real-size test in the field</li> </ul>

### Course details

Duration	2 days
Structure	Theory, camera handling, demos in the morning and practical labs alternate.

**P/N: ITC-EXP-2021**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2021; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by qualified ITC instructor</li> <li>• Training material in printed format</li> <li>• Diploma of attendance</li> <li>• Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>
Course organization	
ITC	The "ITC Short Course Fever Screening" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Fever Screening" is lectured by qualified ITC instructors with special experience in human febrile temperature screening.

**Compatible with the following products**

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL

---

**P/N: ITC-EXP-2021**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2021; r. 23306; en-US

- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-EXP-2029

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2029  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This full 2-day course aims at explaining how to set-up a procedure for the temperature control of population. It is designed for persons who might have to implement a control (medical authorities, customs, civil security, etc). It starts with a brief, but necessary, reminder of thermal transfers and of the fundamentals of thermography. Key factors such as NETD, drift and drift compensation, baseline measurement and update, and the factors influencing the diagnosis are explained in details. Camera setup is included. ITC recommends organizing it simultaneously to a real-size test (airport, ferry-port, seaport, river port, stadium, etc.).

### Content

- Introduction
- Human physiological factors
- Basic thermography
- IR Camera basics
- Fever screening methodology

### Labs

- Emissivity and Trefl
- Camera settings
- Influence of the object size on the measurement

### Course information

Available languages	English
Target group	<ul style="list-style-type: none"> <li>• Persons with professional interest in human febrile temperature screening.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Airline operative personnel</li> <li>• Reception personnel</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic technical understanding</li> <li>• Should be organized with a real-size test in the field</li> </ul>

### Course details

Duration	2 days
Structure	Theory, camera handling, demos in the morning and practical labs alternate.



**P/N: ITC-EXP-2029**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2029; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by qualified ITC instructor</li> <li>• Training material in printed format</li> <li>• Diploma of attendance</li> <li>• Attendance of a group up to 10 persons</li> <li>• Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	The "ITC Short Course Fever Screening" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Fever Screening" is lectured by qualified ITC instructors with special experience in human febrile temperature screening.

**Compatible with the following products**

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC

**P/N: ITC-EXP-2029**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2029; r. 23306; en-US

- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-EXP-1019

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1019  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This is a full one day course for beginners and everybody interested in IR thermography and its applications. The course covers the basics of IR theory and includes demos, camera hand-on and practical exercises using relevant key labs.

#### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- Introduction to electrical and building inspections
- IR Camera handling
- Data analysis and reports

#### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement

### Course information

Available languages	English, French, German, Swedish, Danish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in IR thermography and its applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> <li>• A person who starts to use IR cameras at work</li> <li>• Students and pupils with thermography related projects</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>

### Course details

Duration	1 day
Structure	Theory, camera handling and demos in the morning. Practical labs in the afternoon.

**P/N: ITC-EXP-1019**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1019; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	The "ITC Short Course Introduction to Thermography" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Introduction to Thermography" is lectured by qualified ITC instructors with long time experience in the various fields of thermography.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)

**P/N: ITC-EXP-1019**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1019; r. 23306; en-US

- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC



---

**P/N: ITC-EXP-1019**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1019; r. 23306; en-US

- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-1011

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1011  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This is a full one day course for beginners and everybody interested in IR thermography and its applications. The course covers the basics of IR theory and includes demos, camera hand-on and practical exercises using relevant key labs.

#### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- Introduction to electrical and building inspections
- IR Camera handling
- Data analysis and reports

#### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement

### Course information

Available languages	English, French, German, Swedish, Danish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in IR thermography and its applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> <li>• A person who starts to use IR cameras at work</li> <li>• Students and pupils with thermography related projects</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>

### Course details

Duration	1 day
Structure	Theory, camera handling and demos in the morning. Practical labs in the afternoon.

**P/N: ITC-EXP-1011**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1011; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by qualified ITC instructor</li> <li>• Training material in printed format</li> <li>• Diploma of attendance</li> <li>• Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>
Course organization	
ITC	The "ITC Short Course Introduction to Thermography" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Introduction to Thermography" is lectured by qualified ITC instructors with long time experience in the various fields of thermography.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)



**P/N: ITC-EXP-1011**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1011; r. 23306; en-US

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL

---

**P/N: ITC-EXP-1011**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1011; r. 23306; en-US

- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-3006

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-3006  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

An additional day can be booked when the customer wants to extend the training content, software exercises or guided field practice.

The third day can be added to the following courses:

ITC-EXP-2036

### Content

- Customized, build on the topics of the course prior to the additional day

### Labs

- Customized, depending on the equipment used and the application of interest

### Course information

Available languages	English, other languages upon demand
Target group	<ul style="list-style-type: none"> <li>• Participants of short courses that are delivered on-site</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Persons with special interests in the equipment and their application requesting in-depth training or additional guidance.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Please refer to the pre-requisites of the course prior to the additional day</li> </ul>

### Course details

Duration	1 day
Structure	Customized upon the customer's request
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>• ITC qualified instructor teaching the class</li> <li>• Training material in printed format</li> <li>• Diploma of attendance</li> <li>• Attendance of a group up to 6 persons</li> <li>• Might include more, such as lunch, refreshments, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>



**P/N: ITC-EXP-3006**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3006; r. 23306; en-US

Course organization	
ITC	Additional days are offered by the ITC or ITC partner arranging the respective standard class prior to the additional day. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Additional days are normally lectured by the same ITC trainers lecturing the standard class prior to the additional day.

**Compatible with the following products**

- 42901-1001; FLIR A305sc
- 48001-1001; FLIR A325sc
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-SOW-0001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-SOW-0001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
These courses are for users of FLIR software like FLIR Reporter Professional or FLIR ResearchIR. Please observe that content and labs depend on the software used.	
Content	
<ul style="list-style-type: none"> <li>System requirements</li> <li>Configuration</li> <li>Analyzing functions</li> <li>Templates</li> <li>Reporting functions</li> <li>Data exchange</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>System set up</li> <li>Data import</li> <li>Data analysis</li> <li>Creating templates</li> <li>Creating reports</li> <li>Exporting data</li> <li>Triggering</li> </ul>	
Course information	
Available languages	English, French, German, other languages upon request
Target group	<ul style="list-style-type: none"> <li>Persons interested in, or users, of the specific software.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Consultants interested in reporting</li> <li>Building inspectors with reporting needs</li> <li>R&amp;D staff interested in advanced data analysis</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Laptop with installed software full version or 30 day demo (download on <a href="http://www.flir.com">www.flir.com</a>)</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Basic knowledge about thermography and related parameters.</li> </ul>
Course details	
Duration	Depends on software.
Structure	Short system introduction, then demos and practical exercises.

**P/N: ITC-SOW-0001**

© 2015, FLIR Systems, Inc.  
#ITC-SOW-0001; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>
Course organization	
ITC	Software courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Software courses are lectured by ITC qualified instructors experienced in usage of the software being subject of the class.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)

**P/N: ITC-SOW-0001**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0001; r. 23306; en-US

- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°

**P/N: ITC-SOW-0001**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0001; r. 23306; en-US

- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display



## P/N: ITC-SOW-0009

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-SOW-0009  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
These courses are for users of FLIR software like FLIR Reporter Professional or FLIR ResearchIR. Please observe that content and labs depend on the software used.	
Content	
<ul style="list-style-type: none"> <li>• System requirements</li> <li>• Configuration</li> <li>• Analyzing functions</li> <li>• Templates</li> <li>• Reporting functions</li> <li>• Data exchange</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>• System set up</li> <li>• Data import</li> <li>• Data analysis</li> <li>• Creating templates</li> <li>• Creating reports</li> <li>• Exporting data</li> <li>• Triggering</li> </ul>	
Course information	
Available languages	English, French, German, other languages upon request
Target group	<ul style="list-style-type: none"> <li>• Persons interested in, or users, of the specific software.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Consultants interested in reporting</li> <li>• Building inspectors with reporting needs</li> <li>• R&amp;D staff interested in advanced data analysis</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Laptop with installed software full version or 30 day demo (download on <a href="http://www.flir.com">www.flir.com</a>)</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic knowledge about thermography and related parameters.</li> </ul>
Course details	
Duration	Depends on software.
Structure	Short system introduction, then demos and practical exercises.

**P/N: ITC-SOW-0009**

© 2015, FLIR Systems, Inc.  
#ITC-SOW-0009; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	Software courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Software courses are lectured by ITC qualified instructors experienced in usage of the software being subject of the class.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm

**P/N: ITC-SOW-0009**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0009; r. 23306; en-US

- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°

**P/N: ITC-SOW-0009**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0009; r. 23306; en-US

- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-1001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	1 day
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-1001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1001; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-1001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1001; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-1001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1001; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display



## P/N: ITC-EXP-1009

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1009  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	1 day
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-1009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1009; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-1009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1009; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-1009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1009; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-2001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	2 days
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-2001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2001; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-2001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2001; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-2001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2001; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display



## P/N: ITC-EXP-2009

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2009  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	2 days
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-2009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2009; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-2009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2009; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-2009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2009; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-3001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-3001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	3 days
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-3001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3001; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-3001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3001; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-3001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3001; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display



## P/N: ITC-EXP-3009

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-3009  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	3 days
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-3009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3009; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-3009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3009; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-3009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3009; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-TFT-0100

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TFT-0100  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

ITC travel time for instructor

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TFT-0100**

© 2015, FLIR Systems, Inc.  
#ITC-TFT-0100; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TFT-0100**

© 2015, FLIR Systems, Inc.  
#ITC-TFT-0100; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TOL-1003

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1003  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (Center and South Africa)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)



**P/N: ITC-TOL-1003**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1003; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TOL-1003**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1003; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TOL-1001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (Europe, Balcans, Turkey, Cyprus)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1001**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1001; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TOL-1001**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1001; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TOL-1005

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1005  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (other)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1005**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1005; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TOL-1005**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1005; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5



## P/N: ITC-TOL-1002

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1002  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (Russia/GUS, Middle East, North Africa)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1002**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1002; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TOL-1002**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1002; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TOL-1004

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1004  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (various)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1004**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1004; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TOL-1004**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1004; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

# Accessories for FLIR A3xxf series

---

## P/N: T197000

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197000  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

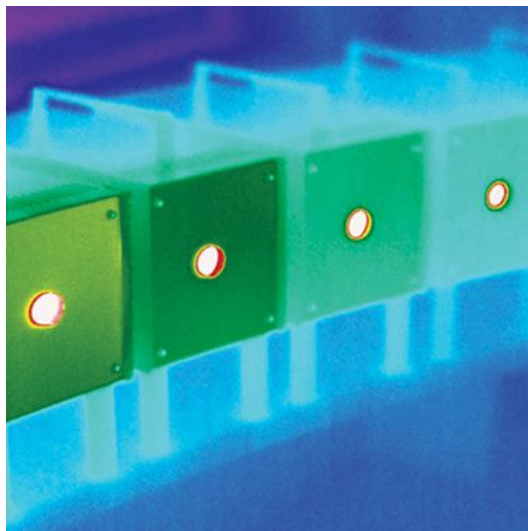
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
For high temperature applications the camera can be calibrated for high temperature ranges.	
Measurement	
Optional object temperature range	+200°C to +1200°C (+392°F to +2192°F)

### Compatible with the following products

- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL





High temp. option +1200°C/+2192°F for FLIR T/B2xx to T/B4xx and A3xx, A3xxf, A3xxpt, A3xxsc series

---

**P/N: T197000**

© 2015, FLIR Systems, Inc.  
#T197000; r. 23306; en-US

- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL

## P/N: T911182

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T911182  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Power supply for A3xx f cameras with IP 66 classification.	
Power system	
AC operation	100–240 V, 50–60 Hz, 0.9–0.2 A
DC operation	Output: 24 VDC 2.0 A
Power	50 W
Environmental data	
Operating temperature range	–30°C to +50°C (–22°F to +122°F)
Physical data	
Weight	0.850 kg (1.9 lb.)
Size (L × W × H)	150 × 101 × 47 mm (5.9 × 3.98 × 1.85 in.)
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009291
UPC-12	845188009823
Country of origin	Sweden

### Compatible with the following products

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°



---

**P/N: T911182**

© 2015, FLIR Systems, Inc.  
#T911182; r. 23306; en-US

- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: 908929

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 908929  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This cable is used to transfer video signals from the infrared camera to an external monitor, or to a computer featuring an internal video card.

### Physical data

Weight	163 g (5.7 oz.)
Cable length	3.0 m (9.8 ft.)
Connector	BNC

### Shipping information

Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009444
UPC-12	845188010027
Country of origin	Sweden

### Compatible with the following products

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°

## P/N: T951004ACC

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T951004ACC  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This cable is used to connect the infrared camera to Ethernet.	
Physical data	
Weight	80 g (2.8 oz.)
Cable length	2.0 m (6.6 ft.)
Connector	RJ-45 to RJ-45
Cable type	CAT-6
Shipping information	
Packaging, type	Cardboard box
Packaging, weight	130 g (4.6 oz.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558006320
UPC-12	845188006679
Country of origin	Sweden

### Compatible with the following products

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)

---

**P/N: T951004ACC**

© 2015, FLIR Systems, Inc.  
#T951004ACC; r. 23306; en-US

- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: 1910586ACC

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1910586ACC  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This cable is used, when a separate power supply is used (not the one supplied with the camera)	
Physical data	
Weight	75 g (2.6 oz.)
Cable length	2.0 m (6.6 ft.)
Connector	Pigtailed
Color	Black
Shipping information	
Packaging, type	Cardboard box
Packaging, weight	163 g (5.7 oz.)
Packaging, size	170 × 64 × 75 mm (6.69 × 2.52 × 2.95 in.)
EAN-13	7332558006375
UPC-12	845188006723
Country of origin	Sweden

### Compatible with the following products

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°



## Power cable, pigtailed

---

### P/N: 1910586ACC

© 2015, FLIR Systems, Inc.  
#1910586ACC; r. 23306; en-US

- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°



## P/N: T198584

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198584  
Commit: 25122  
Language: en-US  
Modified: 2015-04-29 09:51  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

FLIR Tools is a software suite specifically designed to provide an easy way to update your camera and create inspection reports.

#### Key features:

- Report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR).
- Manual IR/Visual Image Grouping
- Import images from your camera to your computer.
- Apply filters when searching for images.
- Search all text in images and text annotations.
- Store the five latest search criteria's.
- Lay out, move, and resize measurement tools on any infrared image.
- Create PDF imagesheets of any images of your choice.
- Add headers, footers, and logos to imagesheets.
- Create PDF reports for images of your choice.
- Add headers, footers, and logos to reports.
- Report editor (report page preview and snap to grid).
- Sort function (by date, groups sorted by path, and groups sorted by date).
- Browse and purchase infrared cameras, software, and accessories in the webshop.
- Software localized to 21 languages.
- Support for MSX (Multi-Spectral Dynamic Imaging ) Images
- Support for Sketch Images on both IR and Visual with toggling ON/OFF feature.
- Support for Same FOV ( Field of View Match )
- Display of Compass Information in Edit and in Report.
- Display of GPS Information in Edit and in Report.
- Microsoft Windows 7 (32- and 64-bit) and Windows 8 (32- and 64-bit)
- Camera update (applies to FLIR Ex, Kxx, Exx and T6xx series only).

### Download

This software is a freeware. To download, click the following link:

<http://support.flir.com/tools>

### Release notes

Version	5.2
New features in version 5.2	<ul style="list-style-type: none"> <li>• Support for auto-adjusting a region.</li> <li>• Support for zoom.</li> <li>• Various bug fixes.</li> </ul>
New features in version 5.1	<ul style="list-style-type: none"> <li>• Improved import performance.</li> <li>• Added support for video recording settings for FLIR Kxx series.</li> <li>• Added support for importing video files from FLIR Kxx series.</li> <li>• Added support for FLIR C2 camera.</li> <li>• Various bug fixes.</li> </ul>

**P/N: T198584**

© 2015, FLIR Systems, Inc.  
#T198584; r. 25122; en-US

Release notes	
New features in version 5.0	<ul style="list-style-type: none"> <li>Local object parameters for measurement tools.</li> <li>Save a report in-process with the ability to edit at a later time.</li> <li>Pull-down menus for text annotations.</li> <li>Variable playback speed for recordings.</li> <li>Show or hide min./max./avg. temperature, and hot/cold markers, for areas and lines.</li> <li>Smoother display for low-resolution images.</li> <li>UltraMax image enhancement.</li> <li>Dropping support for Windows XP.</li> <li>Various bug fixes.</li> </ul>
New features in version 4.1	<ul style="list-style-type: none"> <li>Previous/next in Edit mode.</li> <li>Clone in the Library.</li> <li>Extract visual photo from a multispectral image.</li> <li>Import *.mp4, *.seq, and *.csq files from the camera.</li> <li>Playback/edit *.seq and *.csq files.</li> <li>Scale enhancement for the FLIR GF3xx series.</li> <li>Auto resize of thumbnails during importing for the FLIR T6xx series.</li> <li>Grouping/ungrouping now added.</li> <li>Various bug fixes.</li> </ul>
New features in version 4.0	<ul style="list-style-type: none"> <li>Support for the new FLIR Ex and Exx series cameras.</li> <li>Interactive quick start guide when connecting a FLIR camera.</li> <li>Improved library view.</li> <li>Support for multispectral images.</li> <li>Support for auto-oriented images.</li> <li>Various bug fixes.</li> </ul>
New features in version 3.1	<ul style="list-style-type: none"> <li>Support for FLIR K series cameras.</li> <li>Interactive quick start guide when connecting a FLIR K series camera.</li> <li>Live image streaming from FLIR K series cameras.</li> <li>PC-side configuration of FLIR K series cameras.</li> <li>New report templates for DC images only added.</li> <li>Various bug fixes.</li> </ul>
New features in version 3.0	<ul style="list-style-type: none"> <li>Add folder to library.</li> <li>Support for isotherms and color alarms</li> <li>Image description for both IR and DC.</li> <li>Export functionality (*.avi, *.csv).</li> <li>Microsoft Windows 8 (32- and 64-bit)</li> <li>New web installer</li> <li>Various bug fixes.</li> </ul>
New features in version 2.2	<ul style="list-style-type: none"> <li>Camera tab: <ul style="list-style-type: none"> <li>Logging feature in Camera Tab</li> <li>Recording and playback of SEQ files.</li> </ul> </li> <li>Various bug fixes.</li> </ul>
New features in version 2.1	<ul style="list-style-type: none"> <li>New Text Comment Template Tab: <ul style="list-style-type: none"> <li>Create, Edit and Transfer templates to and from any FLIR Camera.</li> <li>Import and Export of Templates.</li> </ul> </li> <li>Support for MSX (Multi-Spectral Dynamic Imaging ) Images</li> <li>Support for Sketch Images on both IR and Visual with toggling ON/OFF feature.</li> <li>Support for Same FOV ( Field of View Match )</li> <li>Display of Compass Information in Edit and in Report.</li> <li>Display of GPS Information in Edit and in Report. <ul style="list-style-type: none"> <li>Direct Link to Google Maps for GPS Tagged images from Report.</li> </ul> </li> <li>Support for 3x5 and 6x5 A-series cameras</li> </ul>

**P/N: T198584**

© 2015, FLIR Systems, Inc.  
#T198584; r. 25122; en-US

Release notes	
New features in version 2.0	<ul style="list-style-type: none"> <li>Camera tab: <ul style="list-style-type: none"> <li>Camera connection with FLIR UVC cameras.</li> <li>Measurement data analysis.</li> <li>Plotting.</li> <li>Snapshot saving with text annotation and plot.</li> </ul> </li> <li>Performance improvement for large reports: can now create reports and imagesheets of up to 200 pages.</li> <li>Various bug fixes.</li> </ul>
New features in version 1.3	<ul style="list-style-type: none"> <li>Import from ix series cameras.</li> <li>Add and remove a form from a group.</li> <li>Text comments are now saved in the infrared image.</li> <li>The indexing engine can create groups from IR, DC, and text annotations when indexing the paths in the watch folder.</li> <li>Arrow tool in the report toolbar.</li> <li>Reorder pages.</li> <li>Text annotations can now be edited in the report.</li> <li>New report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR).</li> <li>New sample images.</li> </ul>
New features in version 1.2 SP1	<ul style="list-style-type: none"> <li>Various bug fixes.</li> </ul>
New features in version 1.2	<ul style="list-style-type: none"> <li>Search function: <ul style="list-style-type: none"> <li>Store the five latest search criterias.</li> <li>Search in all texts in images and text annotations.</li> </ul> </li> <li>Sort function: <ul style="list-style-type: none"> <li>By date.</li> <li>Groups sorted by by path.</li> <li>Groups sorted by date.</li> </ul> </li> <li>Report editor: <ul style="list-style-type: none"> <li>Report page preview.</li> <li>Snap to grid.</li> <li>Various bug fixes.</li> </ul> </li> </ul>
New features in version 1.1 SP1	<ul style="list-style-type: none"> <li>Extension to the camera update functionality.</li> <li>Various bug fixes</li> </ul>
New features in version 1.1	<ul style="list-style-type: none"> <li>Software localized to 21 languages.</li> <li>Camera update. (Exx, T6xx)</li> <li>Option to rotate an infrared image in the infrared editor.</li> </ul>

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Digital download, or</li> <li>CD-ROM</li> </ul>
Packaging, weight	0.106 kg (0.23 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005279
UPC-12	845188005481
Country of origin	Sweden

System requirements	
Operating system	<ul style="list-style-type: none"> <li>Windows XP, 32-bit</li> <li>Windows Vista, 32-bit</li> <li>Windows 7, 32-bit</li> <li>Windows 7, 64-bit</li> <li>Windows 8, 32-bit</li> <li>Windows 8, 64-bit</li> </ul>

**P/N: T198584**

© 2015, FLIR Systems, Inc.  
#T198584; r. 25122; en-US

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm

**P/N: T198584**

© 2015, FLIR Systems, Inc.  
#T198584; r. 25122; en-US

- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

**P/N: T198584**

© 2015, FLIR Systems, Inc.  
#T198584; r. 25122; en-US

- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72001-0101; FLIR C2

**P/N: T198583**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: T198583  
Commit: 25121  
Language: en-US  
Modified: 2015-04-29 09:50  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

Compared to FLIR Tools, FLIR Tools+ has the following features:

- Radiometric Panorama incl. MSX
- Radiometric IR Video Recording
- Advanced Reporting

FLIR Tools/Tools+ is a software suite specifically designed to provide an easy way to update your camera and create inspection reports.

FLIR Tools+ main features:

- Manual IR/Visual Image Grouping
- Radiometric Panorama incl. MSX
- Radiometric IR Video Recording
- Advanced Reporting - Microsoft Office 2007 (32bit), and 2010 (32bit) support
- Report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR).
- Import images from your camera to your computer.
- Apply filters when searching for images.
- Search all text in images and text annotations.
- Store the five latest search criteria's.
- Lay out, move, and resize measurement tools on any infrared image.
- Create PDF imagesheets of any images of your choice.
- Add headers, footers, and logos to imagesheets.
- Create PDF reports for images of your choice.
- Add headers, footers, and logos to reports.
- Report editor (report page preview and snap to grid).
- Sort function (by date, groups sorted by path, and groups sorted by date).
- Browse and purchase infrared cameras, software, and accessories in the webshop.
- Software localized to 21 languages.
- Support for MSX (Multi-Spectral Dynamic Imaging ) Images
- Support for Sketch Images on both IR and Visual with toggling ON/OFF feature.
- Support for Same FOV ( Field of View Match )
- Display of Compass Information in Edit and in Report.
- Display of GPS Information in Edit and in Report.
- Microsoft Windows 7 (32- and 64-bit) and Windows 8 (32- and 64-bit)
- Camera update (applies to FLIR Ex, Kxx, Exx and T6xx series only).

## Download

Download a 30-day evaluation version here:

<http://support.flir.com/toolsplus>

## Release notes

Version	5.2
New features in version 5.2	<ul style="list-style-type: none"> <li>• Support for auto-adjusting a region.</li> <li>• Support for zoom.</li> <li>• Express Microsoft Word reporting (*.docx).</li> <li>• Various bug fixes.</li> </ul>

**P/N: T198583**

© 2015, FLIR Systems, Inc.  
#T198583; r. 25121; en-US

Release notes	
New features in version 5.1	<ul style="list-style-type: none"> <li>Improved import performance.</li> <li>Added support for video recording settings for FLIR Kxx series.</li> <li>Added support for importing video files from FLIR Kxx series.</li> <li>Added support for FLIR C2 camera.</li> <li>Various bug fixes.</li> </ul>
New features in version 5.0	<ul style="list-style-type: none"> <li>Local object parameters for measurement tools.</li> <li>Save a report in-process with the ability to edit at a later time.</li> <li>Pull-down menus for text annotations.</li> <li>Variable playback speed for recordings.</li> <li>Show or hide min./max./avg. temperature, and hot/cold markers, for areas and lines.</li> <li>Smoother display for low-resolution images.</li> <li>UltraMax image enhancement.</li> <li>Dropping support for Windows XP.</li> <li>Various bug fixes.</li> </ul>
New features in version 4.1	<ul style="list-style-type: none"> <li>Previous/next in Edit mode.</li> <li>Clone in the Library.</li> <li>Extract visual photo from a multispectral image.</li> <li>Import *.mp4, *.seq, and *.csq files from the camera.</li> <li>Playback/edit *.seq and *.csq files.</li> <li>Scale enhancement for the FLIR GF3xx series.</li> <li>Auto resize of thumbnails during importing for the FLIR T6xx series.</li> <li>Grouping/ungrouping now added.</li> <li>Various bug fixes.</li> </ul>
New features in version 4.0	<ul style="list-style-type: none"> <li>Support for the new FLIR Ex and Exx series cameras.</li> <li>Interactive quick start guide when connecting a FLIR camera.</li> <li>Improved library view.</li> <li>Support for multispectral images.</li> <li>Support for auto-oriented images.</li> <li>Various bug fixes.</li> </ul>
New features in version 3.1	<ul style="list-style-type: none"> <li>Support for FLIR K series cameras.</li> <li>Interactive quick start guide when connecting a FLIR K series camera.</li> <li>Live image streaming from FLIR K series cameras.</li> <li>PC-side configuration of FLIR K series cameras.</li> <li>New report templates for DC images only added.</li> <li>Various bug fixes.</li> </ul>
New features in version 3.0	<ul style="list-style-type: none"> <li>Add folder to library.</li> <li>Support for isotherms and color alarms</li> <li>Image description for both IR and DC.</li> <li>Export functionality (*.avi, *.csv).</li> <li>Microsoft Windows 8 (32- and 64-bit)</li> <li>New web installer</li> <li>Radiometric panorama with MSX images.</li> <li>Advanced reports.</li> <li>Manual grouping/ungrouping of images.</li> <li>Various bug fixes.</li> </ul>
New features in version 2.2	<ul style="list-style-type: none"> <li>Camera tab: <ul style="list-style-type: none"> <li>Logging feature in Camera Tab</li> <li>Recording and playback of SEQ files.</li> </ul> </li> <li>Various bug fixes.</li> </ul>
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>FLIR Tools+ scratchcard</li> </ul>
Packaging, weight	0.059 kg (0.13 lb.)



**P/N: T198583**

© 2015, FLIR Systems, Inc.  
#T198583; r. 25121; en-US

Shipping information	
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	73325585378 4743254001442 (Estonia plant)
UPC-12	845188005580
Country of origin	Sweden
System requirements	
Operating system	<ul style="list-style-type: none"> <li>Windows XP, 32-bit</li> <li>Windows Vista, 32-bit</li> <li>Windows 7, 32-bit</li> <li>Windows 7, 64-bit</li> <li>Windows 8, 32-bit</li> <li>Windows 8, 64-bit</li> </ul>
Software requirements	<ul style="list-style-type: none"> <li>Office 2007, 32-bit</li> <li>Office 2010, 32-bit</li> <li>Office 2013, 32-bit</li> </ul>

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)

**P/N: T198583**

© 2015, FLIR Systems, Inc.  
#T198583; r. 25121; en-US

- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens

**P/N: T198583**

© 2015, FLIR Systems, Inc.  
#T198583; r. 25121; en-US

- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 63901-0101; FLIR E4
- 63905-0501; FLIR E5
- 63902-0202; FLIR E6
- 63903-0303; FLIR E8

## P/N: DSW-10000

### Copyright

© 2015, FLIR Systems, Inc.

All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: DSW-10000

Commit: 24597

Language: en-US

Modified: 2015-04-09 13:38

Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.

27700 SW Parkway Ave.

Wilsonville, OR 97070

USA

Telephone: +1-503-498-3547

### Website

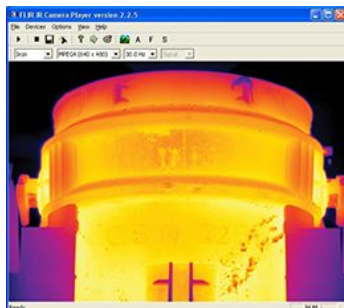
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

FLIR IR Camera Player is a PC-based remote control and viewer that you can use with cameras from FLIR Systems.

You can perform one or more of the following with FLIR IR Camera Player:

- Record a video stream from the camera.
- Save a frame from the video stream as a snapshot image (\*.bmp).
- Autofocus, focus far, and focus near.
- Autoadjust the camera image.
- Freeze the camera image.
- Save a camera image in the camera.
- Change Color palette.
- Add an image description and a text comment to an image.

You connect a camera in one of the following ways:

- Ethernet
- FireWire
- USB

### Download

This software is a freeware. To download, click the following link:

<http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=89>

### Release notes

Version	2.3.3
New features	<p>Main improvements in version 2.3.3:</p> <ul style="list-style-type: none"> <li>• Added latest device drivers (1.9.1.0).</li> <li>• Various bugfixes</li> </ul> <p>Main improvements in version 2.2.7:</p> <ul style="list-style-type: none"> <li>• Added support for FLIR Ax5 series.</li> </ul>

### System requirements

Operating system	<ul style="list-style-type: none"> <li>• Windows XP, 32-bit</li> <li>• Windows Vista, 32-bit/64-bit</li> <li>• Windows 7, 32-bit/64-bit</li> </ul>
------------------	--

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)

**P/N: DSW-10000**

© 2015, FLIR Systems, Inc.  
#DSW-10000; r. 24597; en-US

- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc

**P/N: DSW-10000**

© 2015, FLIR Systems, Inc.  
#DSW-10000; r. 24597; en-US

- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)



---

**P/N: DSW-10000**

© 2015, FLIR Systems, Inc.  
#DSW-10000; r. 24597; en-US

- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: APP-10002

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: APP-10002  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

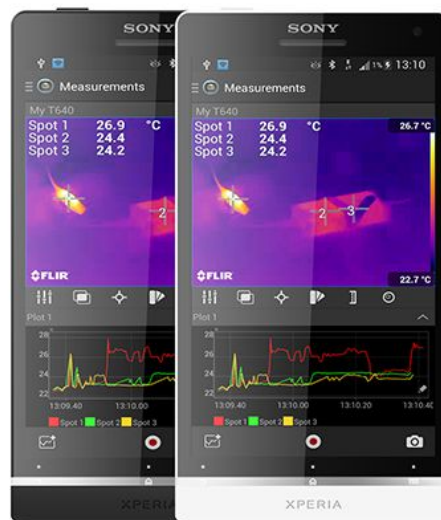
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description
FLIR Tools Mobile is an intuitive Android app for analyzing, managing, and distributing infrared images.
Key features:
<ul style="list-style-type: none"> <li>• Remote control</li> <li>• MSX</li> <li>• Images with sketch on DC and IR</li> <li>• Images with field of view follow</li> <li>• Editable text comments</li> <li>• Emissivity table</li> <li>• Import images from your Wi-Fi-enabled camera.</li> <li>• Connect and stream infrared images from the camera.</li> <li>• Connect and stream measurement data from FLIR Test &amp; Measurement meters</li> <li>• Lay out and move measurement tools on the image.</li> <li>• Read out temperature measurements.</li> <li>• Create and configure temporal plots based on results of measurement tools on the infrared image.</li> <li>• Log measurement data and export it as a *.csv file.</li> <li>• Save a measurement scenario as a data snapshot.</li> <li>• Zoom in on images.</li> <li>• On the Android device, remotely take snapshots when a camera is connected.</li> <li>• On the camera, take snapshots that will automatically be saved on the Android device.</li> <li>• Delete images on the Android device.</li> <li>• Display an image's GPS coordinates on Google Maps.</li> <li>• Create and e-mail reports.</li> <li>• Save images in the Android device photo library.</li> <li>• Send images to FTP sites and other file-sharing services (Dropbox, Box.net, etc.).</li> <li>• Display image information, e.g., object parameters, text comments, and file details.</li> <li>• Play back voice comments.</li> <li>• Change the level and span.</li> <li>• Change general settings in the app.</li> <li>• Change the palette.</li> </ul>
Download
The application can be downloaded from Android Market or Amazon Marketplace, see the link below.
<a href="https://market.android.com/details?id=com.flir.viewer">https://market.android.com/details?id=com.flir.viewer</a>



**P/N: APP-10002**

© 2015, FLIR Systems, Inc.  
#APP-10002; r. 24597; en-US

Release notes	
Version	3.4.0
New features	<p>Main improvements in version 3.4.0:</p> <ul style="list-style-type: none"> <li>• Support for *.csq files.</li> <li>• Various bug fixes.</li> </ul> <p>Main improvements in version 3.2.0:</p> <ul style="list-style-type: none"> <li>• Receive data logs from FLIR DM93.</li> <li>• Save or export data logs in new *.csv format.</li> <li>• Various bug fixes.</li> </ul> <p>Main improvements in version 3.1.0:</p> <ul style="list-style-type: none"> <li>• Added variable level of MSX alpha</li> <li>• Added Fusion Blending mode for images with possibility to adjust level</li> <li>• Stability fixes</li> <li>• Improved memory management</li> <li>• Modified internal handling of measurement results and displaying them.</li> </ul>
System requirements	
Operating system	<ul style="list-style-type: none"> <li>• Android 2.3 and later</li> </ul>

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)

**P/N: APP-10002**

© 2015, FLIR Systems, Inc.  
#APP-10002; r. 24597; en-US

- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: APP-10003

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: APP-10003  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

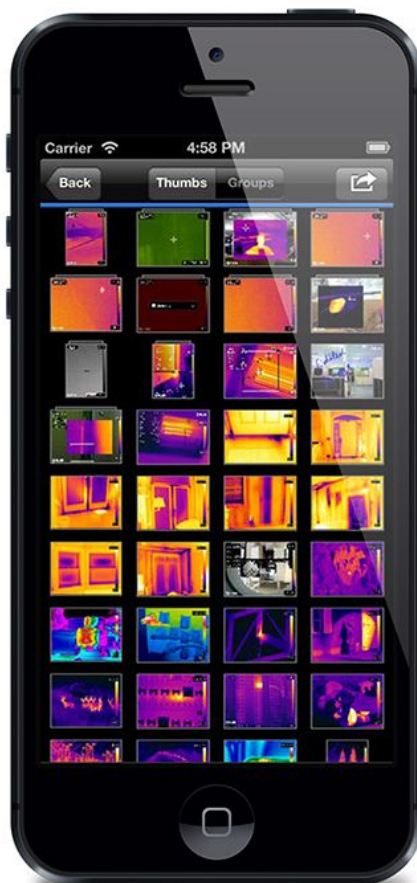
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

FLIR Tools Mobile lets professional thermographers use an iPad, iPhone, or iPod touch to see and capture live, streaming infrared video and stills from select FLIR cameras.

With FLIR Tools Mobile the camera can be stationed in one area and operated wirelessly from another – highly useful for IR inspections of energized equipment or performing IR surveys in hard-to-reach locations and harsh working environments. Streaming video and remote access also gives decision makers and others on your team a valuable opportunity to observe and collaborate in the thermal imaging process.

Using FLIR Tools Mobile, you can do one or more of the following:

- Import images from your infrared camera
- Lay out and move measurement tools on the image
- Read out temperature measurements
- Zoom in on images
- On the iPhone/iPad, remotely take snapshots when a camera is connected
- On the camera, take snapshots that will automatically be saved in the iPhone/iPad
- Delete any images on the iPhone/iPad
- Display an image's GPS coordinates on Google Maps
- Create and e-mail imagesheets
- Create and e-mail reports
- Print imagesheets and reports to any AirPrint-enabled printer
- Save images to iPhone/iPad photo library
- Send images to FTP sites and other file sharing services (Dropbox, Box.net, etc.)
- Display image information, such as object parameters, text comments, file information, etc.
- Play-back voice comments
- Change level and span
- Change general settings in the app
- Change palette

**P/N: APP-10003**

© 2015, FLIR Systems, Inc.  
#APP-10003; r. 24597; en-US

General description	
FLIR Tools Mobile lets you take control of the following features on selected cameras:	
<ul style="list-style-type: none"> <li>• Remote control of your FLIR camera.</li> <li>• Support for MSX (Multi-Spectral Dynamic Imaging) images.</li> <li>• Support for sketch images in both IR and visual with on/off toggling.</li> <li>• Support for same FOV ("Field of View Match").</li> <li>• Editable text comments.</li> <li>• Auto and manual focus</li> <li>• Level and span</li> <li>• Color palettes</li> <li>• Temperature measurement analytics</li> <li>• Spot</li> <li>• Area box</li> <li>• Circle</li> <li>• Line</li> <li>• Parameter settings</li> <li>• Emissivity</li> <li>• Reflected temperature</li> <li>• Relative humidity</li> <li>• Atmospheric temperature</li> <li>• IR and visible light image blending</li> <li>• Picture-in-picture</li> <li>• Thermal fusion</li> <li>• Image storage</li> <li>• MPEG 4 video</li> <li>• Radiometric JPEG stills</li> </ul>	
Download	
The application can be downloaded from App Store, see the link below.	
<a href="http://itunes.apple.com/app/flir-tools/id511247887?mt=8">http://itunes.apple.com/app/flir-tools/id511247887?mt=8</a>	
Release notes	
Version	1.5.0
New features	<p>Main improvements in version 1.5.0:</p> <ul style="list-style-type: none"> <li>• Updated for iOS7.</li> <li>• Improved Library.</li> </ul> <p>Main improvements in version 1.3.2:</p> <ul style="list-style-type: none"> <li>• Added remote viewer mode for T4xx and Exx series.</li> <li>• Improved support for anonymous FTP server.</li> <li>• Improved image import from photo gallery.</li> </ul> <p>Main improvements in version 1.3:</p> <ul style="list-style-type: none"> <li>• Support for fusion images.</li> <li>• Marking fusion images with the stacked icon in the library browser.</li> <li>• Switching image modes while editing fusion images.</li> <li>• Switch between fusion IR/DC and grouped images during preview.</li> <li>• Support for landscape and portrait images.</li> <li>• Image parameters can be modified only in edit mode.</li> <li>• Support for FLIR Exx-series cameras.</li> </ul>
System requirements	
Operating system	<ul style="list-style-type: none"> <li>• iOS 4.0 or later</li> </ul>
Hardware requirements	<ul style="list-style-type: none"> <li>• iPhone</li> <li>• iPad</li> <li>• iPod</li> </ul>

**Compatible with the following products**

- N/A

## P/N: T198567

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198567  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

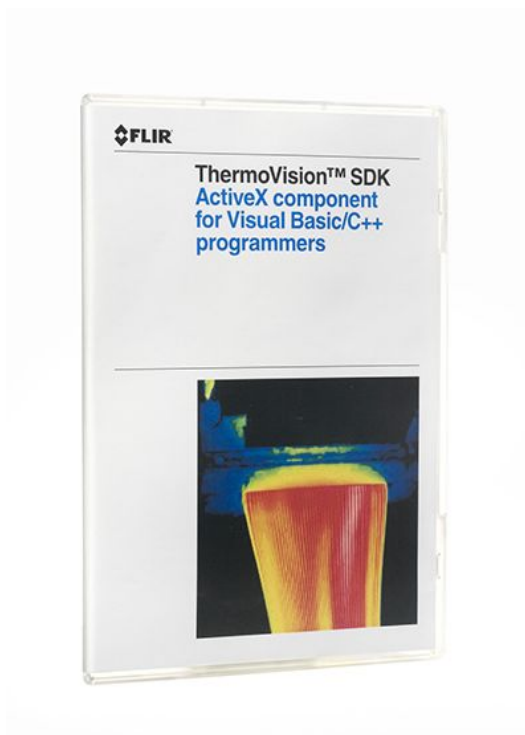
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
ThermoVision™ System Developers Kit	
Key features:	
<ul style="list-style-type: none"> <li>• Supports communication and broadcasting via FireWire™, Ethernet, and USB interfaces.</li> <li>• Gives the user full control of the camera.</li> <li>• Allows the user to set alarm conditions and measurement functions in the camera</li> <li>• Allows the user to define I/O functionality (FLIR A series).</li> <li>• Based on ActiveX technology.</li> <li>• Supports acquisition of images through FireWire™, Ethernet, and USB interfaces.</li> <li>• Reads from and writes to file in FLIR Systems' proprietary file format and writes to files in FLIR Systems' open floating point format (*.fpf).</li> <li>• Converts 16-bit absolute pixels into temperature pixels and several intermediate types of pixels formats, for maximum user flexibility. Applies to all camera models with temperature measurement capabilities.</li> <li>• Allows 16-bit temperature linear outputs from FLIR A series cameras.</li> <li>• Includes method that allows using individual emissivity value correction on any single pixel or condensed measuring value – e.g. average, minimum etc.</li> <li>• Supports conditional recording to file through FireWire™, Ethernet, and USB interfaces.</li> </ul>	
Users with licenses for the previous version can download a free upgrade via the following link: <a href="http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=62">http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=62</a>	
Release notes	
Version	ThermoVision 2.6 SP2
New features	<ul style="list-style-type: none"> <li>• — News in SP2:</li> <li>• Support for FLIR GF3XX series</li> <li>• Support for windowing in FLIR A615 and FLIR SC6x5</li> <li>• Support for windowing in FLIR SC6x0</li> <li>• Various bug fixes</li> </ul>
Shipping information	
Packaging, type	Cardboard box
Packaging, weight	0.132 kg (0.3 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)

**P/N: T198567**

© 2015, FLIR Systems, Inc.  
#T198567; r. 24597; en-US

Shipping information	
EAN-13	7332558005293
UPC-12	845188005504
Country of origin	Sweden

**Compatible with the following products**

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens



---

**P/N: T198567**

© 2015, FLIR Systems, Inc.  
#T198567; r. 24597; en-US

- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

## P/N: T198566

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198566  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

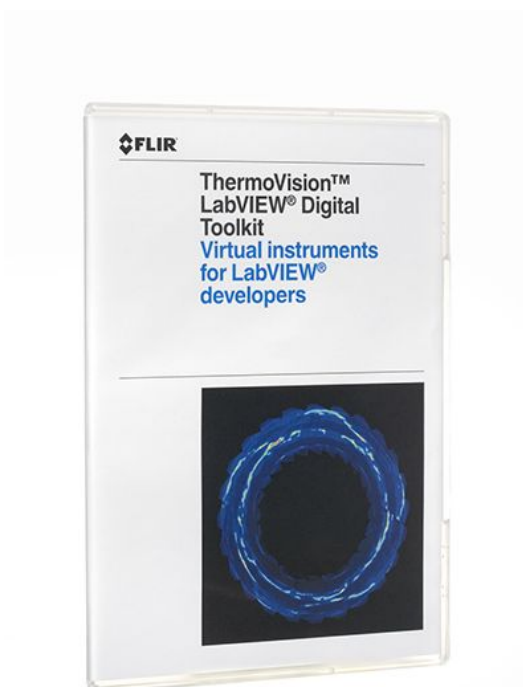
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
<p>The ThermoVision LabVIEW Toolkit is a set of VIs (virtual instruments) for cameras that support alarms, measurement functions, and I/O functionality.</p> <p>Through LabVIEW, you can use these VIs as sub-VIs to manage communications with a FLIR IR camera in digital mode.</p> <p>You can also generate true temperature images from images acquired through LabVIEW, and can use the LabVIEW IR Measurement and Display tools to analyze the temperatures of imaged objects.</p>	
Key features:	
<ul style="list-style-type: none"> <li>Set up communications between LabVIEW VI and a FLIR IR camera</li> <li>Capture and collect images via FireWire or Ethernet interfaces</li> <li>Adjust the camera configuration parameters and focus as you view a live image</li> <li>Control the camera calibration</li> <li>Send any other camera command to the camera</li> <li>Generate a true temperature image from a 16-bit image acquired using the camera's FireWire or Ethernet interfaces</li> <li>Close communications to the IR camera</li> </ul>	
<p>Users with licenses for the previous version can download a free upgrade via the following link:  <a href="http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=63">http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=63</a></p>	
Note: Only supports National Instrument 32-bit Labview	
Release notes	
Version	3.3
New features	<ul style="list-style-type: none"> <li>Windows 7 32- and 64-bit support</li> <li>Support for FLIR A615 and FLIR SC6X5 (including windowing)</li> <li>Support for windowing in FLIR SC660</li> <li>Various bug fixes</li> <li>New example VIs</li> </ul>
Shipping information	
Packaging, type	Cardboard box
Packaging, weight	0.133 kg (0.3 lb.)



**P/N: T198566**

© 2015, FLIR Systems, Inc.  
#T198566; r. 23306; en-US

Shipping information	
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005187
UPC-12	845188005399
Country of origin	Sweden

**Compatible with the following products**

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°



---

**P/N: T198566**

© 2015, FLIR Systems, Inc.  
#T198566; r. 23306; en-US

- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

## P/N: 324-0004-00

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 324-0004-00  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

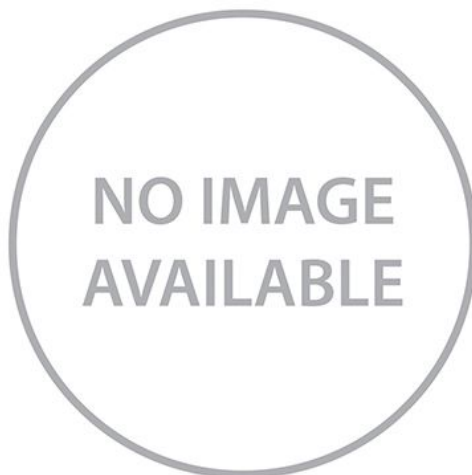
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Hard transport case for F and FLIR A3xxf series thermal imaging camera:

Rugged, watertight plastic shipping case. Holds all items securely. The case can be locked with padlocks and features a breather valve to prevent pressure build-up in airplane cargo holds.

### Shipping information

Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009680
UPC-12	845188010263
Country of origin	Sweden

### Compatible with the following products

- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°

## P/N: 500-0463-00

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 500-0463-00  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

F and FLIR A3xxf series pedestal mount:

Mount to install an F series network-ready fixed mount thermal imaging camera or a FLIR A3xxf series. Typically used on a flat horizontal surface such as a wall or the top of a pole.

### Shipping information

Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009802
UPC-12	845188010348
Country of origin	Sweden

### Compatible with the following products

- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°

**P/N: 4119507**

**Copyright**

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

**Document identity**

Publ. No.: 4119507  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

**Corporate Headquarters**

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

**Website**

<http://www.flir.com>

**Customer support**

<http://support.flir.com>

**Disclaimer**

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



**General description**

F and FLIR A3xxf series pole mount adapter:

Can be used to mount an F series network-ready thermal imaging camera or a FLIR A3xxf series against a new or existing pole.

**Shipping information**

Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009826
UPC-12	845188010362
Country of origin	Sweden

**Compatible with the following products**

- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°

## P/N: 500-0462-00

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 500-0462-00  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

F and FLIR A3xxf series wall mount:

Mount to install an F series network-ready fixed mount thermal imaging camera or a FLIR A3xxf series against a wall.

### Shipping information

Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009840
UPC-12	845188010386
Country of origin	Sweden

### Compatible with the following products

- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°

**P/N: 4130235**

**Copyright**

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

**Document identity**

Publ. No.: 4130235  
Commit: 24652  
Language: en-US  
Modified: 2015-04-10 08:49  
Formatted: 2015-05-12

**Corporate Headquarters**

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

**Website**

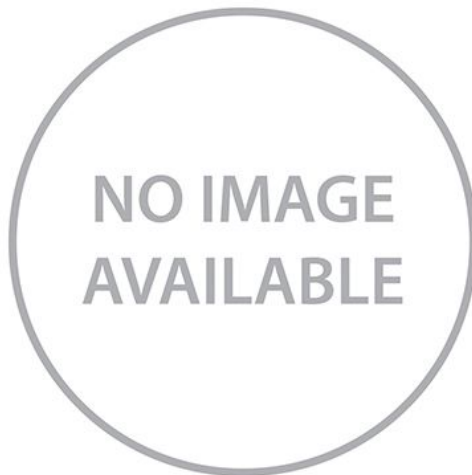
<http://www.flir.com>

**Customer support**

<http://support.flir.com>

**Disclaimer**

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



**General description**

Software to manage and control FLIR Systems thermal imaging cameras for security and safety applications

FLIR Sensors Manager offers powerful and efficient management capabilities for any security installation with FLIR Systems thermal imaging cameras. FLIR Sensors Manager allows to automatically locate FLIR Systems thermal imaging cameras in the network and to easily control them. Just connect the thermal imaging camera to the network, install FLIR Sensors Manager and hit the "discover" button and you will be able to manage and control the camera. Thanks to FLIR Sensors Manager, the management of FLIR Systems thermal imaging cameras over a network will become extremely easy.

FLIR Sensors Manager does not only allow controlling F-, PT- and D-Series thermal imaging cameras. It is also suited for managing thermal imaging cameras with temperature capabilities like the FLIR A310 f and FLIR A310 pt.

FLIR Sensors Manager allows you to get the most out of your thermal imaging camera with temperature measurement capability. It is ideal for monitoring critical infrastructure and for preventing fires.

FLIR Sensors Manager allows to automatically locate FLIR A310 pt and FLIR A310 f cameras in the network. They can be easily controlled and set-up in a distributed multi-camera environment

FLIR Sensors Manager is available in two different versions: Basic (freeware) and Pro. Depending on your exact needs and your security network, you can choose the version that best fits your system's requirements. A free demo version is available and can be downloaded from our website. After registration, the demo version is converted to the basic version.

The Basic version of FLIR Sensors Manager (freeware) allows to:

- Discover sensors in the network
- Command and control of up to four networked sensors: focus, pan/tilt, zoom
- Display network video
- Define presets
- Manage scan lists
- Create panoramas
- Configure user profiles(toolbars, layout, etc)
- Show thermal images on multiple monitors
- Capture images
- Geo Mapping

**P/N: 4130235**

© 2015, FLIR Systems, Inc.  
#4130235; r. 24652; en-US

General description	
The Pro version of FLIR Sensors Manager contains all the features that are incorporated in the Basic version, plus a number of useful modes that will help you make the most out of your security network.	
<p>Video analytics</p> <p>Allows to perform video analytics within FLIR Sensors Manager. It includes:</p> <ul style="list-style-type: none"> <li>- Video Motion Detection: FLIR's pro proprietary algorithm will work on thermal or visible video in the most harsh environments.</li> <li>- Target detection with alarms based on spatial rules like trip wires crossing or areas triggered by enter, exit or both events.</li> <li>- Software based video-tracking of moving objects for control of PTZ sensors.</li> </ul> <p>Radar Cueing and radar tracks display</p> <p>Allows display of real-time position and classification information of radar targets (ID, course, speed, lat/lon, classification, ...) coming from Nexus enabled radars. Allows users to command cameras in advanced radar slave modes (ARPA tracking).</p> <p>Video wall display</p> <p>Allows fully configurable video mosaic layouts, supporting both network and analog frame grabber sources. E-stab Provides a steady image. Can be extremely useful when cameras are installed on high poles where they can be affected by wind or vibration.</p>	
Download	
The demo version is a freeware. To download, click the following link:	
<a href="http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=157">http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=157</a>	
Release notes	
Version	FLIR Sensors Manager - FSM
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009987
UPC-12	845188010522
Country of origin	Sweden
System requirements	
Operating system	<ul style="list-style-type: none"> <li>• Windows XP, 32-bit</li> <li>• Windows Vista, 32-bit</li> <li>• Windows 7, 32-bit</li> <li>• Windows 7, 64-bit</li> </ul>

**Compatible with the following products**

- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL





---

**P/N: 4130235**

© 2015, FLIR Systems, Inc.  
#4130235; r. 24652; en-US

- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL

## P/N: ITC-ADV-3021

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3021  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This interdisciplinary course bridges the gap between IR thermography, background science and application theory. Being an overview course it deals with three main application fields of thermography: electrical, industrial, and building. For every application the participant will learn about the specific theory, typical faults, and how to detect them with a thermography camera. The student will also learn about the basics of condition monitoring, and maintenance.

Examples and case studies from the real world illustrate the course content and are discussed with the participants. Participants will be trained in discovering and identifying typical faults by typical thermal patterns.

### Content

- Introduction
- Electrical Applications (current, voltage, resistance, electrical systems, Ohm's law, some important properties of materials, typical faults, surveying methodology and criteria, safety, voltage limits)
- Industrial Applications (bearings, pumps, gears, belts, misalignment and couplings, gaskets, seals, rings, glands, steam traps, furnaces)
- Building Applications (definition of the building envelope, steady state thermal transfer in a building envelope, transient thermal transfer in a building envelope, applications)

### Course information

Available languages	
English	
Target group	<ul style="list-style-type: none"> <li>• Professional thermographers holding a Level 1 or a Level 2 certificate and</li> <li>• with interest in increasing their knowledge of different thermographic applications, and their limitations or</li> <li>• with a special interest in condition monitoring of machines</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Knows how to operate the camera</li> <li>• Knows how to report</li> <li>• Works in the industry with e.g. maintenance and condition monitoring or is a consultant</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Valid Level 1 thermography certificate</li> <li>• IR related education and experience</li> </ul>

**P/N: ITC-ADV-3021**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3021; r. 23306; en-US

Course details	
Duration	3 days (24 hours)
Structure	The course is divided into the three parts: Electrical Applications, Industrial Applications, and Building Applications. Theory sessions and case studies including interactive discussions alternate.
Exam	A final exam (30 multiple choice questions) will be written on the 3d day in the afternoon. In connection, the correct answers will be discussed by the instructor and the participants.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Attendance of 1 person</li> <li>• Might include more, such as lunch, depending on location and organizing entity</li> </ul>
Course organization	
ITC	The Advanced General Thermography Course is offered worldwide by ITC as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary.
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Advanced General Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)

**P/N: ITC-ADV-3021**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3021; r. 23306; en-US

- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC

---

**P/N: ITC-ADV-3021**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3021; r. 23306; en-US

- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-ADV-3029

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3029  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This interdisciplinary course bridges the gap between IR thermography, background science and application theory. Being an overview course it deals with three main application fields of thermography: electrical, industrial, and building. For every application the participant will learn about the specific theory, typical faults, and how to detect them with a thermography camera. The student will also learn about the basics of condition monitoring, and maintenance.

Examples and case studies from the real world illustrate the course content and are discussed with the participants. Participants will be trained in discovering and identifying typical faults by typical thermal patterns.

### Content

- Introduction
- Electrical Applications (current, voltage, resistance, electrical systems, Ohm's law, some important properties of materials, typical faults, surveying methodology and criteria, safety, voltage limits)
- Industrial Applications (bearings, pumps, gears, belts, misalignment and couplings, gaskets, seals, rings, glands, steam traps, furnaces)
- Building Applications (definition of the building envelope, steady state thermal transfer in a building envelope, transient thermal transfer in a building envelope, applications)

### Course information

Available languages	
English	
Target group	<ul style="list-style-type: none"> <li>• Professional thermographers holding a Level 1 or a Level 2 certificate and</li> <li>• with interest in increasing their knowledge of different thermographic applications, and their limitations or</li> <li>• with a special interest in condition monitoring of machines</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Knows how to operate the camera</li> <li>• Knows how to report</li> <li>• Works in the industry with e.g. maintenance and condition monitoring or is a consultant</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Valid Level 1 thermography certificate</li> <li>• IR related education and experience</li> </ul>

**P/N: ITC-ADV-3029**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3029; r. 23306; en-US

Course details	
Duration	3 days (24 hours)
Structure	The course is divided into the three parts: Electrical Applications, Industrial Applications, and Building Applications. Theory sessions and case studies including interactive discussions alternate.
Exam	A final exam (30 multiple choice questions) will be written on the 3d day in the afternoon. In connection, the correct answers will be discussed by the instructor and the participants.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Attendance of a group up to 10 persons</li> <li>• Might include more, such as lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	The Advanced General Thermography Course is offered worldwide by ITC as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary.
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Advanced General Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)

**P/N: ITC-ADV-3029**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3029; r. 23306; en-US

- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL



---

**P/N: ITC-ADV-3029**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3029; r. 23306; en-US

- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-ADV-3061

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3061  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
ITC Advanced Thermal applications course - attendance 1 pers. (3 days)	
Course information	
Available languages	DACH only
Course details	
Duration	3 days

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)

**P/N: ITC-ADV-3061**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3061; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°



---

**P/N: ITC-ADV-3061**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3061; r. 23306; en-US

- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-ADV-3069

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3069  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
ITC Advanced Thermal applications course - group up to 10 pers. (3 days)	
Course information	
Available languages	DACH only
Course details	
Duration	3 days

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)

**P/N: ITC-ADV-3069**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3069; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°



---

**P/N: ITC-ADV-3069**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3069; r. 23306; en-US

- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-AUT-3101

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-AUT-3101  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

ITC Automated safety systems training - attendance 1 pers (3 days)

### Course details

Duration	3 days
Note	For FLIR distributors and integrators only

### Compatible with the following products

- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC





---

**P/N: ITC-AUT-3101**

© 2015, FLIR Systems, Inc.

#ITC-AUT-3101; r. 23306; en-US

- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL

## P/N: ITC-AUT-3109

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-AUT-3109  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

ITC Automated safety systems training - group of up to 10 pers (3 days)

### Course details

Duration	3 days
Note	For FLIR distributors and integrators only

### Compatible with the following products

- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC



---

**P/N: ITC-AUT-3109**

© 2015, FLIR Systems, Inc.

#ITC-AUT-3109; r. 23306; en-US

- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL

## P/N: ITC-CON-1001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CON-1001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

ITC conference fee

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-CON-1001**

© 2015, FLIR Systems, Inc.

#ITC-CON-1001; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-CON-1001**

© 2015, FLIR Systems, Inc.

#ITC-CON-1001; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-EXP-1041

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1041  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This is a special day emphasizing on specifications of equipment towards the particularities of applications (for instance triggering or high speed). It addresses mainly the needs of high-end camera users in the scientific or industrial fields.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, French, other languages upon request
Target group	<ul style="list-style-type: none"> <li>Highly specialized users with advanced and scientific applications as well as persons interested in these applications and related infrared equipment.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Researchers</li> <li>Scientists</li> <li>University students</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Basic knowledge about thermography and related parameters.</li> <li>Experience in measurement techniques and general software skills.</li> </ul>
Course details	
Duration	Typically 1 day
Structure	Theory and hands-on, depending on topics
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material</li> <li>Diploma of attendance</li> </ul>
Note	This course is typically organized at the customer's site. Course fee does not include cost for instructor's travelling or lodging. The customer is responsible for providing a suitable classroom and preferably also refreshments/lunch.

**P/N: ITC-EXP-1041**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1041; r. 23306; en-US

Course organization	
ITC	ITC customized workshops are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	ITC customized workshops are lectured by ITC qualified specialists having the relevant expertise in the workshop's subject and the related fields of application.

**Compatible with the following products**

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC



**P/N: ITC-EXP-1041**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1041; r. 23306; en-US

- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

## P/N: ITC-EXP-1050

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1050  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Consultancy can be described as any action or arrangement that is not strictly a training course. Most likely, a thermal camera will be involved. It can be, but is not restricted to:

- Pre-sales equipment or software demonstration over the normal extend
- Equipment and software demonstration and explanation over the normal extend
- Advanced technical support
- Application support
- Comparative study involving a camera, either alone or in conjunction with other instruments
- General measurements in a difficult or unusual situation

### Content

- Customized

### Labs

- Customized

### Course information

Available languages	English, French, other languages upon request
Target group	<ul style="list-style-type: none"> <li>• Advanced users who wish to receive an in-depth guidance to complex problems related to infrared equipment, applications, and measurement questions.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Industry technical personnel</li> <li>• Researchers</li> <li>• Scientists</li> <li>• University students</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic knowledge about thermography and related parameters.</li> <li>• Experience in measurement techniques and general software skills.</li> </ul>

### Course details

Duration	Typically 1 day
Structure	Theory and hands-on, depending on topics

**P/N: ITC-EXP-1050**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1050; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Consultancy by qualified ITC specialist</li> <li>Training and/or reference material</li> </ul>
Note	Consultancy is typically carried out at the customer's site. The fee does not include costs for instructor's travelling or lodging. The customer is responsible for providing access to the equipment or objects that should be analyzed or measured, a suitable meeting room, and preferably also refreshments/lunch.
Course organization	
ITC	ITC consultancy is offered by ITC in EMEA. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	ITC consultancy is delivered by ITC qualified specialists having the relevant expertise in infrared measurement and the related fields of application.

**Compatible with the following products**

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°

**P/N: ITC-EXP-1050**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1050; r. 23306; en-US

- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

## P/N: ITC-EXP-1021

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1021  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

An on-site training can be customized upon your needs. The participants will learn about IR thermography, inspections, measurements, applications, and reporting corresponding to the level needed for performing measurements and inspection in their working environment. The trainer will give useful advice on how to best implement IR thermography in your business.

This partnumber is reserved for adding additional students to an on site class.

### Content

- An on-site course can be any course, from a 1-day introduction to general thermography, over a customized application course to a complete certification course.

### Labs

- Portable classroom labs
- Field training on the site in agreement with the customer

### Course information

Available languages	English, Dutch, German, French, Italian, Spanish, Swedish, other languages upon request
Target group	<ul style="list-style-type: none"> <li>• Employees of a company or certain departments who would like to minimize travel costs and receive the training directly on their daily working site.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>

### Course details

Duration	Customized or according to the kind of course the in-house training is equivalent to.
Structure	Theory, camera handling, demos, practical labs and field training alternate.

**P/N: ITC-EXP-1021**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1021; r. 23306; en-US

Course details	
Exam	Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> </ul>
Course organization	
ITC	ITC In-house courses are offered worldwide by ITC and partners as listed. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	ITC In-house courses are lectured by ITC qualified instructors with experience in the relevant fields of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm

**P/N: ITC-EXP-1021**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1021; r. 23306; en-US

- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°

**P/N: ITC-EXP-1021**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1021; r. 23306; en-US

- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display



## P/N: ITC-EXP-1029

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1029  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
An on-site training can be customized upon your needs. The participants will learn about IR thermography, inspections, measurements, applications, and reporting corresponding to the level needed for performing measurements and inspection in their working environment. The trainer will give useful advice on how to best implement IR thermography in your business.	
Content	
<ul style="list-style-type: none"> <li>An on-site course can be any course, from a 1-day introduction to general thermography, over a customized application course to a complete certification course.</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Portable classroom labs</li> <li>Field training on the site in agreement with the customer</li> </ul>	
Course information	
Available languages	English, Dutch, German, French, Italian, Spanish, Swedish, other languages upon request
Target group	<ul style="list-style-type: none"> <li>Employees of a company or certain departments who would like to minimize travel costs and receive the training directly on their daily working site.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>
Course details	
Duration	Customized or according to the kind of course the in-house training is equivalent to.
Structure	Theory, camera handling, demos, practical labs and field training alternate.
Exam	Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.

**P/N: ITC-EXP-1029**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1029; r. 23306; en-US

Course details	
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by qualified ITC instructor</li> <li>• Training material in printed format</li> <li>• Diploma of attendance</li> <li>• Attendance of a group up to 10 persons</li> </ul>
Note	Course fee does not include cost for instructor's travelling or lodging. When organized at the customers' site, the customer is responsible for providing a suitable classroom and preferably also refreshments/lunch.
Course organization	
ITC	ITC In-house courses are offered worldwide by ITC and partners as listed. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	ITC In-house courses are lectured by ITC qualified instructors with experience in the relevant fields of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)

**P/N: ITC-EXP-1029**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1029; r. 23306; en-US

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL

**P/N: ITC-EXP-1029**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1029; r. 23306; en-US

- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-CER-5105

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5105  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 1 certified thermographer. The participant will learn about the basics of infrared, how to operate the camera under different conditions and for various purposes, how to do an appropriate judgement of the measurement situation in the field and how to identify potential error sources. After the class, the participant will be able to do IR inspections following written guidelines and to report the result of this inspection.

This partnumber is reserved for adding additional students to a level 1 on site class.

### Content

- Introduction to Thermography
- Camera Operation
- Basic physics of heat
- Basic physics of infrared
- Thermal pattern recognition and IR applications
- IR temperature measurement techniques
- Qualitative and quantitative thermography
- Inspection routines and reporting

### Student presentations

During the seminar, students will generate a small case study based on the lab exercises to be presented to the class.

### Labs

- Camera handling
- Level and Span
- Conduction pattern
- Forced convection
- Direct and indirect thermal measurement
- Thermal capacity
- Steady state and transient heat flow
- Evaporation and condensation
- Electrical application
- Emissivity and Reflected apparent temperature
- Spatial resolution
- Location and temperature measurement of a hot/cold spot
- Image transfer to the computer

**P/N: ITC-CER-5105**

© 2015, FLIR Systems, Inc.

#ITC-CER-5105; r. 23306; en-US

Course information	
Available languages	Chinese, Danish, Dutch, English, Finish, French, German, Greek, Hebrew, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (bra.), Romanian, Russian, Serbo-Croatian, Spanish, Swedish, Thai
Target group	<ul style="list-style-type: none"> <li>• Practical user</li> <li>• This course is designed for beginners in thermography with some experience in camera handling and limited IR knowledge, who want to take their first step to become a professional thermographer and want to qualify as a Level 1 certified thermographer.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>• having already some basic experience with IR thermography,</li> <li>• knowing the basic functions of the camera,</li> <li>• who wants to become a certified thermographer in order to gain a competitive advantage or who needs the certifications because of legal reasons or company internal regulations.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Be familiar with the basic operation of an infrared camera</li> <li>• Have the recommended experience within thermography according to relevant standards</li> </ul>

Course details	
Duration	35 – 40 hours
Structure	Theory and camera practice (hands-on) alternate every day, additional labs and software exercises at some days.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>• Attendance of 1 person</li> <li>• Might include more, such as lunch, depending on location and organizing entity</li> </ul>
Note	Only for non-EURO, non-SEK, non NOK, non- £, -non CHF countries

Course organization	
ITC	The Level 1 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)

**P/N: ITC-CER-5105**

© 2015, FLIR Systems, Inc.

#ITC-CER-5105; r. 23306; en-US

- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc

**P/N: ITC-CER-5105**

© 2015, FLIR Systems, Inc.

#ITC-CER-5105; r. 23306; en-US

- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display



## P/N: ITC-CER-5101

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5101  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 1 certified thermographer. The participant will learn about the basics of infrared, how to operate the camera under different conditions and for various purposes, how to do an appropriate judgement of the measurement situation in the field and how to identify potential error sources. After the class, the participant will be able to do IR inspections following written guidelines and to report the result of this inspection.

### Content

- Introduction to Thermography
- Camera Operation
- Basic physics of heat
- Basic physics of infrared
- Thermal pattern recognition and IR applications
- IR temperature measurement techniques
- Qualitative and quantitative thermography
- Inspection routines and reporting

### Student presentations

During the seminar, students will generate a small case study based on the lab exercises to be presented to the class.

### Labs

- Camera handling
- Level and Span
- Conduction pattern
- Forced convection
- Direct and indirect thermal measurement
- Thermal capacity
- Steady state and transient heat flow
- Evaporation and condensation
- Electrical application
- Emissivity and Reflected apparent temperature
- Spatial resolution
- Location and temperature measurement of a hot/cold spot
- Image transfer to the computer

**P/N: ITC-CER-5101**

© 2015, FLIR Systems, Inc.

#ITC-CER-5101; r. 23306; en-US

Course information	
Available languages	Chinese, Danish, Dutch, English, Finish, French, German, Greek, Hebrew, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (bra.), Romanian, Russian, Serbo-Croatian, Spanish, Swedish, Thai
Target group	<ul style="list-style-type: none"> <li>Practical user</li> <li>This course is designed for beginners in thermography with some experience in camera handling and limited IR knowledge, who want to take their first step to become a professional thermographer and want to qualify as a Level 1 certified thermographer.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>having already some basic experience with IR thermography,</li> <li>knowing the basic functions of the camera,</li> <li>who wants to become a certified thermographer in order to gain a competitive advantage or who needs the certifications because of legal reasons or company internal regulations.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Be familiar with the basic operation of an infrared camera</li> <li>Have the recommended experience within thermography according to relevant standards</li> </ul>

Course details	
Duration	35 – 40 hours
Structure	Theory and camera practice (hands-on) alternate every day, additional labs and software exercises at some days.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>Attendance of 1 person</li> <li>Might include more, such as lunch, depending on location and organizing entity</li> </ul>

Course organization	
ITC	The Level 1 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)

**P/N: ITC-CER-5101**

© 2015, FLIR Systems, Inc.

#ITC-CER-5101; r. 23306; en-US

- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)

**P/N: ITC-CER-5101**

© 2015, FLIR Systems, Inc.

#ITC-CER-5101; r. 23306; en-US

- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-CER-5109

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5109  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 1 certified thermographer. The participant will learn about the basics of infrared, how to operate the camera under different conditions and for various purposes, how to do an appropriate judgement of the measurement situation in the field and how to identify potential error sources. After the class, the participant will be able to do IR inspections following written guidelines and to report the result of this inspection.

### Content

- Introduction to Thermography
- Camera Operation
- Basic physics of heat
- Basic physics of infrared
- Thermal pattern recognition and IR applications
- IR temperature measurement techniques
- Qualitative and quantitative thermography
- Inspection routines and reporting

### Student presentations

During the seminar, students will generate a small case study based on the lab exercises to be presented to the class.

### Labs

- Camera handling
- Level and Span
- Conduction pattern
- Forced convection
- Direct and indirect thermal measurement
- Thermal capacity
- Steady state and transient heat flow
- Evaporation and condensation
- Electrical application
- Emissivity and Reflected apparent temperature
- Spatial resolution
- Location and temperature measurement of a hot/cold spot
- Image transfer to the computer

**P/N: ITC-CER-5109**

© 2015, FLIR Systems, Inc.

#ITC-CER-5109; r. 23306; en-US

Course information	
Available languages	Chinese, Danish, Dutch, English, Finish, French, German, Greek, Hebrew, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (bra.), Romanian, Russian, Serbo-Croatian, Spanish, Swedish, Thai
Target group	<ul style="list-style-type: none"> <li>Practical user</li> <li>This course is designed for beginners in thermography with some experience in camera handling and limited IR knowledge, who want to take their first step to become a professional thermographer and want to qualify as a Level 1 certified thermographer.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>having already some basic experience with IR thermography,</li> <li>knowing the basic functions of the camera,</li> <li>who wants to become a certified thermographer in order to gain a competitive advantage or who needs the certifications because of legal reasons or company internal regulations.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Be familiar with the basic operation of an infrared camera</li> <li>Have the recommended experience within thermography according to relevant standards</li> </ul>

Course details	
Duration	35 – 40 hours
Structure	Theory and camera practice (hands-on) alternate every day, additional labs and software exercises at some days.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>

Course organization	
ITC	The Level 1 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)

**P/N: ITC-CER-5109**

© 2015, FLIR Systems, Inc.

#ITC-CER-5109; r. 23306; en-US

- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310

**P/N: ITC-CER-5109**

© 2015, FLIR Systems, Inc.

#ITC-CER-5109; r. 23306; en-US

- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display



## P/N: ITC-CER-5205

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5205  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 2 certified thermographer. The participant will learn about topics in infrared thermography to increase the knowledge about infrared physics, heat science, infrared measurement equipment and its application. As a Level 2 thermographer the participant shall provide guidance to category 1 personnel in the areas of equipment selection, techniques, limitations, data analysis, corrective actions and reporting.

This partnumber is reserved for adding additional students to a level 2 on site class.

### Content

- Thermal science
- Heat transfer
- Temperature measurement
- Infrared science
- IR equipment and applications

### Student presentations

During the seminar, students shall present a prepared case study to the class. The maximum duration (excl. discussion) should be 7 minutes and the maximum number of 7 slides should not be exceeded.

### Labs (Note: Labs marked "(M)" are mandatory)

- Newton's law (class lab) (M)
- Advanced emissivity measurement (M)
- Variation of emissivity with the angle (M)
- Transient thermal transfer
- Indirect power measurement (M)
- IR-window transmission (M)
- Slit Response Function
- Hole Response Function (M)
- Parallel circuits

### Course information

#### Available languages

Dutch, English, German, French, Italian, Portuguese (bra.), Spanish, Swedish

#### Target group

- Professional user
- This course is designed for thermographers holding a Level 1 certificate, who want to increase their knowledge about IR thermography and who want to qualify as a Level 2 certified thermographer.

**P/N: ITC-CER-5205**

© 2015, FLIR Systems, Inc.

#ITC-CER-5205; r. 23306; en-US

Course information	
Typical student	<ul style="list-style-type: none"> <li>A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>having several months of professional experience within thermography,</li> <li>versed in camera operation and reporting,</li> <li>holding a Level 1 certificate,</li> <li>who needs the Level 2 Certification for guidance and supervision of other thermographers or is interested in deeper understanding of IR thermography.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Valid Level 1 thermography certificate,</li> <li>Recommended experience within thermography according to relevant standards,</li> <li>Prepared case study to be presented at the Level 2 course and submitted towards qualification at course closing.</li> </ul>

Course details	
Duration	40 hours
Structure	Theory, camera practice (hands-on), and prepared case studies alternate every day.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>Attendance of 1 person</li> <li>Might include more, such as lunch, depending on location and organizing entity.</li> </ul>
Note	Only for non-EURO, non-SEK, non NOK, non- £, -non CHF countries

Course organization	
ITC	The Level 2 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in T560393 Courses offered by ITC partners. Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)

**P/N: ITC-CER-5205**

© 2015, FLIR Systems, Inc.

#ITC-CER-5205; r. 23306; en-US

- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°

**P/N: ITC-CER-5205**

© 2015, FLIR Systems, Inc.

#ITC-CER-5205; r. 23306; en-US

- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-CER-5201

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5201  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 2 certified thermographer. The participant will learn about topics in infrared thermography to increase the knowledge about infrared physics, heat science, infrared measurement equipment and its application. As a Level 2 thermographer the participant shall provide guidance to category 1 personnel in the areas of equipment selection, techniques, limitations, data analysis, corrective actions and reporting.

### Content

- Thermal science
- Heat transfer
- Temperature measurement
- Infrared science
- IR equipment and applications

### Student presentations

During the seminar, students shall present a prepared case study to the class. The maximum duration (excl. discussion) should be 7 minutes and the maximum number of 7 slides should not be exceeded.

### Labs (Note: Labs marked "(M)" are mandatory)

- Newton's law (class lab) (M)
- Advanced emissivity measurement (M)
- Variation of emissivity with the angle (M)
- Transient thermal transfer
- Indirect power measurement (M)
- IR-window transmission (M)
- Slit Response Function
- Hole Response Function (M)
- Parallel circuits

### Course information

#### Available languages

Dutch, English, German, French, Italian, Portuguese (bra.), Spanish, Swedish

#### Target group

- Professional user
- This course is designed for thermographers holding a Level 1 certificate, who want to increase their knowledge about IR thermography and who want to qualify as a Level 2 certified thermographer.

**P/N: ITC-CER-5201**

© 2015, FLIR Systems, Inc.

#ITC-CER-5201; r. 23306; en-US

Course information	
Typical student	<ul style="list-style-type: none"> <li>A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>having several months of professional experience within thermography,</li> <li>versed in camera operation and reporting,</li> <li>holding a Level 1 certificate,</li> <li>who needs the Level 2 Certification for guidance and supervision of other thermographers or is interested in deeper understanding of IR thermography.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Valid Level 1 thermography certificate,</li> <li>Recommended experience within thermography according to relevant standards,</li> <li>Prepared case study to be presented at the Level 2 course and submitted towards qualification at course closing.</li> </ul>
Course details	
Duration	40 hours
Structure	Theory, camera practice (hands-on), and prepared case studies alternate every day.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>Attendance of 1 person</li> <li>Might include more, such as lunch, depending on location and organizing entity.</li> </ul>
Course organization	
ITC	The Level 2 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in T560393 Courses offered by ITC partners. Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)

**P/N: ITC-CER-5201**

© 2015, FLIR Systems, Inc.

#ITC-CER-5201; r. 23306; en-US

- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°

**P/N: ITC-CER-5201**

© 2015, FLIR Systems, Inc.

#ITC-CER-5201; r. 23306; en-US

- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°



## P/N: ITC-CER-5209

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5209  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 2 certified thermographer. The participant will learn about topics in infrared thermography to increase the knowledge about infrared physics, heat science, infrared measurement equipment and its application. As a Level 2 thermographer the participant shall provide guidance to category 1 personnel in the areas of equipment selection, techniques, limitations, data analysis, corrective actions and reporting.

### Content

- Thermal science
- Heat transfer
- Temperature measurement
- Infrared science
- IR equipment and applications

### Student presentations

During the seminar, students shall present a prepared case study to the class. The maximum duration (excl. discussion) should be 7 minutes and the maximum number of 7 slides should not be exceeded.

### Labs (Note: Labs marked "(M)" are mandatory)

- Newton's law (class lab) (M)
- Advanced emissivity measurement (M)
- Variation of emissivity with the angle (M)
- Transient thermal transfer
- Indirect power measurement (M)
- IR-window transmission (M)
- Slit Response Function
- Hole Response Function (M)
- Parallel circuits

### Course information

#### Available languages

Dutch, English, German, French, Italian, Portuguese (bra.), Spanish, Swedish

#### Target group

- Professional user
- This course is designed for thermographers holding a Level 1 certificate, who want to increase their knowledge about IR thermography and who want to qualify as a Level 2 certified thermographer.

**P/N: ITC-CER-5209**

© 2015, FLIR Systems, Inc.

#ITC-CER-5209; r. 23306; en-US

Course information	
Typical student	<ul style="list-style-type: none"> <li>A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>having several months of professional experience within thermography,</li> <li>versed in camera operation and reporting,</li> <li>holding a Level 1 certificate,</li> <li>who needs the Level 2 Certification for guidance and supervision of other thermographers or is interested in deeper understanding of IR thermography.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Valid Level 1 thermography certificate,</li> <li>Recommended experience within thermography according to relevant standards,</li> <li>Prepared case study to be presented at the Level 2 course and submitted towards qualification at course closing.</li> </ul>
Course details	
Duration	40 hours
Structure	Theory, camera practice (hands-on), and prepared case studies alternate every day.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as lunch, instructor's travel expenses, etc. depending on location and organizing entity.</li> </ul>
Course organization	
ITC	The Level 2 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in T560393 Courses offered by ITC partners. Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)

**P/N: ITC-CER-5209**

© 2015, FLIR Systems, Inc.

#ITC-CER-5209; r. 23306; en-US

- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°

**P/N: ITC-CER-5209**

© 2015, FLIR Systems, Inc.

#ITC-CER-5209; r. 23306; en-US

- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-EXP-2036

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2036  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This 2-day course consists of lectures on theoretical subjects, plus hands-on.

After a general review of heat and heat transfer, the participants will learn about radiative heat transfer, and thermography equipment. Intensive practice is performed on software.

### Content

- Introduction
- Review on thermal transfer
- Radiative heat transfer (includes estimation of  $T_{\text{Refl}}$  and the emissivity) (with practice)
- Thermography equipment
- Software e.g. ThermoCAM Researcher, FLIR Quickplot or FLIR ResearchIR

### Labs

- Measurements and software exercises

### Course information

Available languages	English, other languages upon request
Target group	<ul style="list-style-type: none"> <li>• Users of FLIR uncooled thermal cameras working with software programs as ThermoCAM Researcher, FLIR Quickplot or FLIR ResearchIR</li> <li>• and with infrared applications in the industry or at research institutions.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Laboratory and industry technical personnel</li> <li>• Researchers and scientists</li> <li>• University students</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic knowledge about thermography and related parameters.</li> <li>• Experience in measurement techniques and general software skills.</li> </ul>

### Course details

Duration	Standard: 2 days (in succession or separate) Upon request: Additional day including complementary topics (ITC-EXP-3006) Upon request: 1 day only (for experienced users with sufficient theoretical background)
Structure	Theory and hands-on

**P/N: ITC-EXP-2036**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2036; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training and/or reference material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 6 persons</li> </ul>
Note	This is normally an on-site course organized at a customer's facility. The fee does not include costs for instructor's travelling or lodging. The customer is responsible for providing access to the equipment or objects that should be analyzed or measured, a suitable meeting room, and preferably also refreshments/lunch.
Course organization	
ITC	The course "ITC R&D basics for industry users" is offered by ITC direct operations in EMEA. Specific customer requests shall be forwarded to the closest ITC or ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The course "ITC R&D basics for industry users" is delivered by ITC qualified instructors having the relevant expertise in advanced thermal measurement, infrared applications, and the use of the camera equipment including software programs.

**Compatible with the following products**

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°

**P/N: ITC-EXP-2036**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2036; r. 23306; en-US

- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-EXP-2025

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2025  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This full 2-day course aims at explaining how to set-up a procedure for the temperature control of population. It is designed for persons who might have to implement a control (medical authorities, customs, civil security, etc). It starts with a brief, but necessary, reminder of thermal transfers and of the fundamentals of thermography. Key factors such as NETD, drift and drift compensation, baseline measurement and update, and the factors influencing the diagnosis are explained in details. Camera setup is included. ITC recommends organizing it simultaneously to a real-size test (airport, ferry-port, seaport, river port, stadium, etc.).

This partnumber is reserved for adding additional students to a fever screening on site class.

### Content

- Introduction
- Human physiological factors
- Basic thermography
- IR Camera basics
- Fever screening methodology

### Labs

- Emissivity and Trefl
- Camera settings
- Influence of the object size on the measurement

### Course information

Available languages	English
Target group	<ul style="list-style-type: none"> <li>• Persons with professional interest in human febrile temperature screening.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Airline operative personnel</li> <li>• Reception personnel</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic technical understanding</li> <li>• Should be organized with a real-size test in the field</li> </ul>

### Course details

Duration	2 days
Structure	Theory, camera handling, demos in the morning and practical labs alternate.



**P/N: ITC-EXP-2025**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2025; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>
Course organization	
ITC	The "ITC Short Course Fever Screening" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Fever Screening" is lectured by qualified ITC instructors with special experience in human febrile temperature screening.

**Compatible with the following products**

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL

---

**P/N: ITC-EXP-2025**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2025; r. 23306; en-US

- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-EXP-2021

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2021  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This full 2-day course aims at explaining how to set-up a procedure for the temperature control of population. It is designed for persons who might have to implement a control (medical authorities, customs, civil security, etc). It starts with a brief, but necessary, reminder of thermal transfers and of the fundamentals of thermography. Key factors such as NETD, drift and drift compensation, baseline measurement and update, and the factors influencing the diagnosis are explained in details. Camera setup is included. ITC recommends organizing it simultaneously to a real-size test (airport, ferry-port, seaport, river port, stadium, etc.).

### Content

- Introduction
- Human physiological factors
- Basic thermography
- IR Camera basics
- Fever screening methodology

### Labs

- Emissivity and Trefl
- Camera settings
- Influence of the object size on the measurement

### Course information

Available languages	English
Target group	<ul style="list-style-type: none"> <li>• Persons with professional interest in human febrile temperature screening.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Airline operative personnel</li> <li>• Reception personnel</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic technical understanding</li> <li>• Should be organized with a real-size test in the field</li> </ul>

### Course details

Duration	2 days
Structure	Theory, camera handling, demos in the morning and practical labs alternate.

**P/N: ITC-EXP-2021**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2021; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>
Course organization	
ITC	The "ITC Short Course Fever Screening" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Fever Screening" is lectured by qualified ITC instructors with special experience in human febrile temperature screening.

**Compatible with the following products**

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL

**P/N: ITC-EXP-2021**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2021; r. 23306; en-US

- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-EXP-2029

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2029  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This full 2-day course aims at explaining how to set-up a procedure for the temperature control of population. It is designed for persons who might have to implement a control (medical authorities, customs, civil security, etc). It starts with a brief, but necessary, reminder of thermal transfers and of the fundamentals of thermography. Key factors such as NETD, drift and drift compensation, baseline measurement and update, and the factors influencing the diagnosis are explained in details. Camera setup is included. ITC recommends organizing it simultaneously to a real-size test (airport, ferry-port, seaport, river port, stadium, etc.).

### Content

- Introduction
- Human physiological factors
- Basic thermography
- IR Camera basics
- Fever screening methodology

### Labs

- Emissivity and Trefl
- Camera settings
- Influence of the object size on the measurement

### Course information

Available languages	English
Target group	<ul style="list-style-type: none"> <li>• Persons with professional interest in human febrile temperature screening.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Airline operative personnel</li> <li>• Reception personnel</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic technical understanding</li> <li>• Should be organized with a real-size test in the field</li> </ul>

### Course details

Duration	2 days
Structure	Theory, camera handling, demos in the morning and practical labs alternate.

**P/N: ITC-EXP-2029**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2029; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	The "ITC Short Course Fever Screening" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Fever Screening" is lectured by qualified ITC instructors with special experience in human febrile temperature screening.

**Compatible with the following products**

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC

**P/N: ITC-EXP-2029**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2029; r. 23306; en-US

- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°



## P/N: ITC-EXP-1019

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1019  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This is a full one day course for beginners and everybody interested in IR thermography and its applications. The course covers the basics of IR theory and includes demos, camera hand-on and practical exercises using relevant key labs.

#### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- Introduction to electrical and building inspections
- IR Camera handling
- Data analysis and reports

#### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement

### Course information

Available languages	English, French, German, Swedish, Danish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in IR thermography and its applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> <li>• A person who starts to use IR cameras at work</li> <li>• Students and pupils with thermography related projects</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>

### Course details

Duration	1 day
Structure	Theory, camera handling and demos in the morning. Practical labs in the afternoon.

**P/N: ITC-EXP-1019**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1019; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	The "ITC Short Course Introduction to Thermography" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Introduction to Thermography" is lectured by qualified ITC instructors with long time experience in the various fields of thermography.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)

**P/N: ITC-EXP-1019**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1019; r. 23306; en-US

- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC



---

**P/N: ITC-EXP-1019**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1019; r. 23306; en-US

- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-1011

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1011  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This is a full one day course for beginners and everybody interested in IR thermography and its applications. The course covers the basics of IR theory and includes demos, camera hand-on and practical exercises using relevant key labs.

### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- Introduction to electrical and building inspections
- IR Camera handling
- Data analysis and reports

### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement

### Course information

Available languages	English, French, German, Swedish, Danish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in IR thermography and its applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> <li>• A person who starts to use IR cameras at work</li> <li>• Students and pupils with thermography related projects</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>

### Course details

Duration	1 day
Structure	Theory, camera handling and demos in the morning. Practical labs in the afternoon.

**P/N: ITC-EXP-1011**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1011; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by qualified ITC instructor</li> <li>• Training material in printed format</li> <li>• Diploma of attendance</li> <li>• Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>
Course organization	
ITC	The "ITC Short Course Introduction to Thermography" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Introduction to Thermography" is lectured by qualified ITC instructors with long time experience in the various fields of thermography.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)

**P/N: ITC-EXP-1011**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1011; r. 23306; en-US

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL

---

**P/N: ITC-EXP-1011**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1011; r. 23306; en-US

- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display



## P/N: ITC-SOW-0001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-SOW-0001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

These courses are for users of FLIR software like FLIR Reporter Professional or FLIR ResearchIR. Please observe that content and labs depend on the software used.

#### Content

- System requirements
- Configuration
- Analyzing functions
- Templates
- Reporting functions
- Data exchange

#### Labs

- System set up
- Data import
- Data analysis
- Creating templates
- Creating reports
- Exporting data
- Triggering

### Course information

Available languages	English, French, German, other languages upon request
Target group	<ul style="list-style-type: none"> <li>• Persons interested in, or users, of the specific software.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Consultants interested in reporting</li> <li>• Building inspectors with reporting needs</li> <li>• R&amp;D staff interested in advanced data analysis</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Laptop with installed software full version or 30 day demo (download on <a href="http://www.flir.com">www.flir.com</a>)</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic knowledge about thermography and related parameters.</li> </ul>

### Course details

Duration	Depends on software.
Structure	Short system introduction, then demos and practical exercises.

**P/N: ITC-SOW-0001**

© 2015, FLIR Systems, Inc.  
#ITC-SOW-0001; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>
Course organization	
ITC	Software courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Software courses are lectured by ITC qualified instructors experienced in usage of the software being subject of the class.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)

**P/N: ITC-SOW-0001**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0001; r. 23306; en-US

- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°

**P/N: ITC-SOW-0001**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0001; r. 23306; en-US

- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-SOW-0009

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-SOW-0009  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
These courses are for users of FLIR software like FLIR Reporter Professional or FLIR ResearchIR. Please observe that content and labs depend on the software used.	
Content	
<ul style="list-style-type: none"> <li>System requirements</li> <li>Configuration</li> <li>Analyzing functions</li> <li>Templates</li> <li>Reporting functions</li> <li>Data exchange</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>System set up</li> <li>Data import</li> <li>Data analysis</li> <li>Creating templates</li> <li>Creating reports</li> <li>Exporting data</li> <li>Triggering</li> </ul>	
Course information	
Available languages	English, French, German, other languages upon request
Target group	<ul style="list-style-type: none"> <li>Persons interested in, or users, of the specific software.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Consultants interested in reporting</li> <li>Building inspectors with reporting needs</li> <li>R&amp;D staff interested in advanced data analysis</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Laptop with installed software full version or 30 day demo (download on <a href="http://www.flir.com">www.flir.com</a>)</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Basic knowledge about thermography and related parameters.</li> </ul>
Course details	
Duration	Depends on software.
Structure	Short system introduction, then demos and practical exercises.

**P/N: ITC-SOW-0009**

© 2015, FLIR Systems, Inc.  
#ITC-SOW-0009; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	Software courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Software courses are lectured by ITC qualified instructors experienced in usage of the software being subject of the class.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm

**P/N: ITC-SOW-0009**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0009; r. 23306; en-US

- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°

**P/N: ITC-SOW-0009**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0009; r. 23306; en-US

- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display



## P/N: ITC-EXP-1001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	1 day
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-1001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1001; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-1001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1001; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-1001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1001; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-1009

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1009  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	1 day
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-1009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1009; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-1009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1009; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-1009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1009; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display



## P/N: ITC-EXP-2001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	2 days
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-2001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2001; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-2001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2001; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-2001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2001; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-2009

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2009  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	2 days
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-2009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2009; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-2009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2009; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-2009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2009; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display



## P/N: ITC-EXP-3001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-3001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	3 days
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-3001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3001; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-3001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3001; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-3001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3001; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-3009

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-3009  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	3 days
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-3009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3009; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-3009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3009; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-3009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3009; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display



## P/N: ITC-TFT-0100

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TFT-0100  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

ITC travel time for instructor

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TFT-0100**

© 2015, FLIR Systems, Inc.  
#ITC-TFT-0100; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TFT-0100**

© 2015, FLIR Systems, Inc.  
#ITC-TFT-0100; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TOL-1003

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1003  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (Center and South Africa)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1003**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1003; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TOL-1003**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1003; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TOL-1001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (Europe, Balcans, Turkey, Cyprus)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1001**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1001; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC



**P/N: ITC-TOL-1001**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1001; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TOL-1005

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1005  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (other)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1005**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1005; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TOL-1005**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1005; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TOL-1002

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1002  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (Russia/GUS, Middle East, North Africa)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1002**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1002; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TOL-1002**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1002; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TOL-1004

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1004  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (various)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)



**P/N: ITC-TOL-1004**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1004; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TOL-1004**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1004; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

# Accessories for FLIR A3xxpt series

---

## P/N: T197000

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197000  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

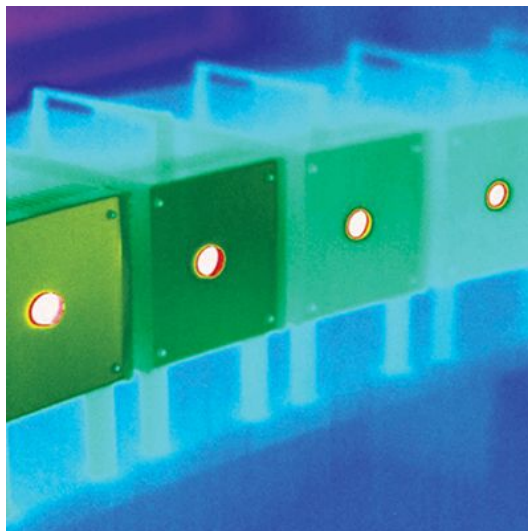
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
For high temperature applications the camera can be calibrated for high temperature ranges.	
Measurement	
Optional object temperature range	+200°C to +1200°C (+392°F to +2192°F)

### Compatible with the following products

- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL



High temp. option +1200°C/+2192°F for FLIR T/B2xx to T/B4xx and A3xx, A3xxf, A3xxpt, A3xxsc series

---

**P/N: T197000**

© 2015, FLIR Systems, Inc.  
#T197000; r. 23306; en-US

- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL

**P/N: 4119468**

**Copyright**

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

**Document identity**

Publ. No.: 4119468  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

**Corporate Headquarters**

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

**Website**

<http://www.flir.com>

**Customer support**

<http://support.flir.com>

**Disclaimer**

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



**General description**

PT and FLIR A310pt series adapter plate:

Can be used to mount a PT series network-ready multi-sensor or a FLIR A310pt series to a wide variety of existing mounts.

**Shipping information**

Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009789
UPC-12	845188010324
Country of origin	Sweden

**Compatible with the following products**

- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL

**P/N: 223-0017-00**

**Copyright**

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

**Document identity**

Publ. No.: 223-0017-00  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

**Corporate Headquarters**

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

**Website**

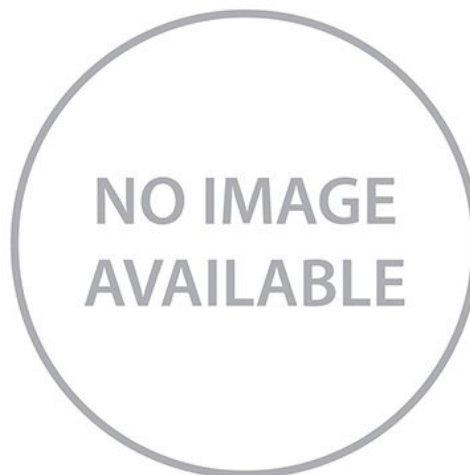
<http://www.flir.com>

**Customer support**

<http://support.flir.com>

**Disclaimer**

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Nexus Console Joystick:	
Joystick to control the D series or a FLIR A310pt series.	
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009796
UPC-12	845188010331
Country of origin	Sweden

**Compatible with the following products**

- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL

## P/N: 500-0461-00

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 500-0461-00  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

PT and FLIR A310pt series pedestal mount:

Mount to install a PT series network-ready multi-sensor or a FLIR A310pt series. Typically used on a flat horizontal surface such as a wall or the top of a pole.

### Shipping information

Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009819
UPC-12	845188010355
Country of origin	Sweden

### Compatible with the following products

- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC





## PEDESTAL MOUNT ASSY - PT-SERIES

---

**P/N: 500-0461-00**

© 2015, FLIR Systems, Inc.  
#500-0461-00; r. 23306; en-US

- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL

**P/N: 500-0509-00**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 500-0509-00  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
PT and FLIR A310pt series pole mount adapter: Adapts the PT and FLIR A310pt series wall mount for installation on a pole.	
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009833
UPC-12	845188010379
Country of origin	Sweden

## Compatible with the following products

- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL

**P/N: 4124857**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 4124857  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Power supply to power a FLIR A310pt series.	
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009314
UPC-12	845188009847
Country of origin	Sweden

## Compatible with the following products

- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL

**P/N: 500-0460-00**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: 500-0460-00  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

PT and FLIR A310pt series wall mount:

Can be used to mount a PT series network-ready multi-sensor or a FLIR A310pt series against a wall.

## Shipping information

Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009857
UPC-12	845188010393
Country of origin	Sweden

## Compatible with the following products

- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL

## P/N: 324-0010-00

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 324-0010-00  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Hard transport case for FLIR A3xxpt series thermal imaging camera:

Rugged, watertight plastic shipping case. Holds all items securely. The case can be locked with padlocks and features a breather valve to prevent pressure build-up in airplane cargo holds.

### Shipping information

Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009697
UPC-12	845188010270
Country of origin	Sweden

### Compatible with the following products

- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL

**P/N: 4130235**

**Copyright**

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

**Document identity**

Publ. No.: 4130235  
Commit: 24652  
Language: en-US  
Modified: 2015-04-10 08:49  
Formatted: 2015-05-12

**Corporate Headquarters**

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

**Website**

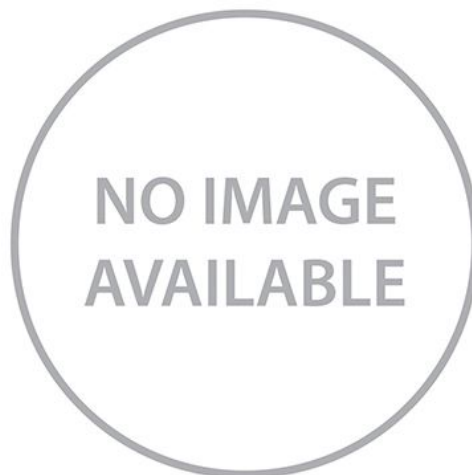
<http://www.flir.com>

**Customer support**

<http://support.flir.com>

**Disclaimer**

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



**General description**

Software to manage and control FLIR Systems thermal imaging cameras for security and safety applications

FLIR Sensors Manager offers powerful and efficient management capabilities for any security installation with FLIR Systems thermal imaging cameras. FLIR Sensors Manager allows to automatically locate FLIR Systems thermal imaging cameras in the network and to easily control them. Just connect the thermal imaging camera to the network, install FLIR Sensors Manager and hit the "discover" button and you will be able to manage and control the camera. Thanks to FLIR Sensors Manager, the management of FLIR Systems thermal imaging cameras over a network will become extremely easy.

FLIR Sensors Manager does not only allow controlling F-, PT- and D-Series thermal imaging cameras. It is also suited for managing thermal imaging cameras with temperature capabilities like the FLIR A310 f and FLIR A310 pt.

FLIR Sensors Manager allows you to get the most out of your thermal imaging camera with temperature measurement capability. It is ideal for monitoring critical infrastructure and for preventing fires.

FLIR Sensors Manager allows to automatically locate FLIR A310 pt and FLIR A310 f cameras in the network. They can be easily controlled and set-up in a distributed multi-camera environment

FLIR Sensors Manager is available in two different versions: Basic (freeware) and Pro. Depending on your exact needs and your security network, you can choose the version that best fits your system's requirements. A free demo version is available and can be downloaded from our website. After registration, the demo version is converted to the basic version.

The Basic version of FLIR Sensors Manager (freeware) allows to:

- Discover sensors in the network
- Command and control of up to four networked sensors: focus, pan/tilt, zoom
- Display network video
- Define presets
- Manage scan lists
- Create panoramas
- Configure user profiles(toolbars, layout, etc)
- Show thermal images on multiple monitors
- Capture images
- Geo Mapping

**P/N: 4130235**

© 2015, FLIR Systems, Inc.  
#4130235; r. 24652; en-US

General description	
The Pro version of FLIR Sensors Manager contains all the features that are incorporated in the Basic version, plus a number of useful modes that will help you make the most out of your security network.	
<p>Video analytics</p> <p>Allows to perform video analytics within FLIR Sensors Manager. It includes:</p> <ul style="list-style-type: none"> <li>- Video Motion Detection: FLIR's pro proprietary algorithm will work on thermal or visible video in the most harsh environments.</li> <li>- Target detection with alarms based on spatial rules like trip wires crossing or areas triggered by enter, exit or both events.</li> <li>- Software based video-tracking of moving objects for control of PTZ sensors.</li> </ul> <p>Radar Cueing and radar tracks display</p> <p>Allows display of real-time position and classification information of radar targets (ID, course, speed, lat/lon, classification, ...) coming from Nexus enabled radars. Allows users to command cameras in advanced radar slave modes (ARPA tracking).</p> <p>Video wall display</p> <p>Allows fully configurable video mosaic layouts, supporting both network and analog frame grabber sources. E-stab Provides a steady image. Can be extremely useful when cameras are installed on high poles where they can be affected by wind or vibration.</p>	
Download	
The demo version is a freeware. To download, click the following link:	
<a href="http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=157">http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=157</a>	
Release notes	
Version	FLIR Sensors Manager - FSM
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009987
UPC-12	845188010522
Country of origin	Sweden
System requirements	
Operating system	<ul style="list-style-type: none"> <li>• Windows XP, 32-bit</li> <li>• Windows Vista, 32-bit</li> <li>• Windows 7, 32-bit</li> <li>• Windows 7, 64-bit</li> </ul>

**Compatible with the following products**

- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL



---

**P/N: 4130235**

© 2015, FLIR Systems, Inc.  
#4130235; r. 24652; en-US

- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL



## P/N: ITC-ADV-3021

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3021  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This interdisciplinary course bridges the gap between IR thermography, background science and application theory. Being an overview course it deals with three main application fields of thermography: electrical, industrial, and building. For every application the participant will learn about the specific theory, typical faults, and how to detect them with a thermography camera. The student will also learn about the basics of condition monitoring, and maintenance.

Examples and case studies from the real world illustrate the course content and are discussed with the participants. Participants will be trained in discovering and identifying typical faults by typical thermal patterns.

### Content

- Introduction
- Electrical Applications (current, voltage, resistance, electrical systems, Ohm's law, some important properties of materials, typical faults, surveying methodology and criteria, safety, voltage limits)
- Industrial Applications (bearings, pumps, gears, belts, misalignment and couplings, gaskets, seals, rings, glands, steam traps, furnaces)
- Building Applications (definition of the building envelope, steady state thermal transfer in a building envelope, transient thermal transfer in a building envelope, applications)

### Course information

Available languages	
English	
Target group	
<ul style="list-style-type: none"> <li>• Professional thermographers holding a Level 1 or a Level 2 certificate and</li> <li>• with interest in increasing their knowledge of different thermographic applications, and their limitations or</li> <li>• with a special interest in condition monitoring of machines</li> </ul>	
Typical student	
<ul style="list-style-type: none"> <li>• Knows how to operate the camera</li> <li>• Knows how to report</li> <li>• Works in the industry with e.g. maintenance and condition monitoring or is a consultant</li> </ul>	
Pre-requisites	
<ul style="list-style-type: none"> <li>• Valid Level 1 thermography certificate</li> <li>• IR related education and experience</li> </ul>	

**P/N: ITC-ADV-3021**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3021; r. 23306; en-US

Course details	
Duration	3 days (24 hours)
Structure	The course is divided into the three parts: Electrical Applications, Industrial Applications, and Building Applications. Theory sessions and case studies including interactive discussions alternate.
Exam	A final exam (30 multiple choice questions) will be written on the 3d day in the afternoon. In connection, the correct answers will be discussed by the instructor and the participants.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Attendance of 1 person</li> <li>• Might include more, such as lunch, depending on location and organizing entity</li> </ul>
Course organization	
ITC	The Advanced General Thermography Course is offered worldwide by ITC as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary.
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Advanced General Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)

**P/N: ITC-ADV-3021**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3021; r. 23306; en-US

- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC

---

**P/N: ITC-ADV-3021**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3021; r. 23306; en-US

- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-ADV-3029

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3029  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This interdisciplinary course bridges the gap between IR thermography, background science and application theory. Being an overview course it deals with three main application fields of thermography: electrical, industrial, and building. For every application the participant will learn about the specific theory, typical faults, and how to detect them with a thermography camera. The student will also learn about the basics of condition monitoring, and maintenance.

Examples and case studies from the real world illustrate the course content and are discussed with the participants. Participants will be trained in discovering and identifying typical faults by typical thermal patterns.

### Content

- Introduction
- Electrical Applications (current, voltage, resistance, electrical systems, Ohm's law, some important properties of materials, typical faults, surveying methodology and criteria, safety, voltage limits)
- Industrial Applications (bearings, pumps, gears, belts, misalignment and couplings, gaskets, seals, rings, glands, steam traps, furnaces)
- Building Applications (definition of the building envelope, steady state thermal transfer in a building envelope, transient thermal transfer in a building envelope, applications)

### Course information

Available languages	
English	
Target group	
<ul style="list-style-type: none"> <li>• Professional thermographers holding a Level 1 or a Level 2 certificate and</li> <li>• with interest in increasing their knowledge of different thermographic applications, and their limitations or</li> <li>• with a special interest in condition monitoring of machines</li> </ul>	
Typical student	
<ul style="list-style-type: none"> <li>• Knows how to operate the camera</li> <li>• Knows how to report</li> <li>• Works in the industry with e.g. maintenance and condition monitoring or is a consultant</li> </ul>	
Pre-requisites	
<ul style="list-style-type: none"> <li>• Valid Level 1 thermography certificate</li> <li>• IR related education and experience</li> </ul>	

**P/N: ITC-ADV-3029**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3029; r. 23306; en-US

Course details	
Duration	3 days (24 hours)
Structure	The course is divided into the three parts: Electrical Applications, Industrial Applications, and Building Applications. Theory sessions and case studies including interactive discussions alternate.
Exam	A final exam (30 multiple choice questions) will be written on the 3d day in the afternoon. In connection, the correct answers will be discussed by the instructor and the participants.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Attendance of a group up to 10 persons</li> <li>• Might include more, such as lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	The Advanced General Thermography Course is offered worldwide by ITC as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary.
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Advanced General Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)

**P/N: ITC-ADV-3029**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3029; r. 23306; en-US

- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL

---

**P/N: ITC-ADV-3029**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3029; r. 23306; en-US

- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°



## P/N: ITC-ADV-3061

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3061  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
ITC Advanced Thermal applications course - attendance 1 pers. (3 days)	
Course information	
Available languages	DACH only
Course details	
Duration	3 days

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)

**P/N: ITC-ADV-3061**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3061; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°



---

**P/N: ITC-ADV-3061**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3061; r. 23306; en-US

- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-ADV-3069

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3069  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
ITC Advanced Thermal applications course - group up to 10 pers. (3 days)	
Course information	
Available languages	DACH only
Course details	
Duration	3 days

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)

**P/N: ITC-ADV-3069**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3069; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°



---

**P/N: ITC-ADV-3069**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3069; r. 23306; en-US

- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-AUT-3101

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-AUT-3101  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
ITC Automated safety systems training - attendance 1 pers (3 days)	
Course details	
Duration	3 days
Note	For FLIR distributors and integrators only

### Compatible with the following products

- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC



---

**P/N: ITC-AUT-3101**

© 2015, FLIR Systems, Inc.

#ITC-AUT-3101; r. 23306; en-US

- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL



## P/N: ITC-AUT-3109

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-AUT-3109  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

ITC Automated safety systems training - group of up to 10 pers (3 days)

### Course details

Duration	3 days
Note	For FLIR distributors and integrators only

### Compatible with the following products

- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC



---

**P/N: ITC-AUT-3109**

© 2015, FLIR Systems, Inc.

#ITC-AUT-3109; r. 23306; en-US

- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL

## P/N: ITC-CON-1001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CON-1001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

ITC conference fee

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-CON-1001**

© 2015, FLIR Systems, Inc.

#ITC-CON-1001; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-CON-1001**

© 2015, FLIR Systems, Inc.

#ITC-CON-1001; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-EXP-1041

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1041  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This is a special day emphasizing on specifications of equipment towards the particularities of applications (for instance triggering or high speed). It addresses mainly the needs of high-end camera users in the scientific or industrial fields.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, French, other languages upon request
Target group	<ul style="list-style-type: none"> <li>Highly specialized users with advanced and scientific applications as well as persons interested in these applications and related infrared equipment.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Researchers</li> <li>Scientists</li> <li>University students</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Basic knowledge about thermography and related parameters.</li> <li>Experience in measurement techniques and general software skills.</li> </ul>
Course details	
Duration	Typically 1 day
Structure	Theory and hands-on, depending on topics
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material</li> <li>Diploma of attendance</li> </ul>
Note	This course is typically organized at the customer's site. Course fee does not include cost for instructor's travelling or lodging. The customer is responsible for providing a suitable classroom and preferably also refreshments/lunch.

**P/N: ITC-EXP-1041**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1041; r. 23306; en-US

Course organization	
ITC	ITC customized workshops are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	ITC customized workshops are lectured by ITC qualified specialists having the relevant expertise in the workshop's subject and the related fields of application.

**Compatible with the following products**

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC

**P/N: ITC-EXP-1041**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1041; r. 23306; en-US

- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens



## P/N: ITC-EXP-1050

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1050  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Consultancy can be described as any action or arrangement that is not strictly a training course. Most likely, a thermal camera will be involved. It can be, but is not restricted to:

- Pre-sales equipment or software demonstration over the normal extend
- Equipment and software demonstration and explanation over the normal extend
- Advanced technical support
- Application support
- Comparative study involving a camera, either alone or in conjunction with other instruments
- General measurements in a difficult or unusual situation

### Content

- Customized

### Labs

- Customized

### Course information

Available languages	English, French, other languages upon request
Target group	<ul style="list-style-type: none"> <li>• Advanced users who wish to receive an in-depth guidance to complex problems related to infrared equipment, applications, and measurement questions.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Industry technical personnel</li> <li>• Researchers</li> <li>• Scientists</li> <li>• University students</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic knowledge about thermography and related parameters.</li> <li>• Experience in measurement techniques and general software skills.</li> </ul>

### Course details

Duration	Typically 1 day
Structure	Theory and hands-on, depending on topics

**P/N: ITC-EXP-1050**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1050; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Consultancy by qualified ITC specialist</li> <li>Training and/or reference material</li> </ul>
Note	Consultancy is typically carried out at the customer's site. The fee does not include costs for instructor's travelling or lodging. The customer is responsible for providing access to the equipment or objects that should be analyzed or measured, a suitable meeting room, and preferably also refreshments/lunch.
Course organization	
ITC	ITC consultancy is offered by ITC in EMEA. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	ITC consultancy is delivered by ITC qualified specialists having the relevant expertise in infrared measurement and the related fields of application.

**Compatible with the following products**

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°

**P/N: ITC-EXP-1050**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1050; r. 23306; en-US

- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

## P/N: ITC-EXP-1021

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1021  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
An on-site training can be customized upon your needs. The participants will learn about IR thermography, inspections, measurements, applications, and reporting corresponding to the level needed for performing measurements and inspection in their working environment. The trainer will give useful advice on how to best implement IR thermography in your business.	
This partnumber is reserved for adding additional students to an on site class.	
Content	
<ul style="list-style-type: none"> <li>An on-site course can be any course, from a 1-day introduction to general thermography, over a customized application course to a complete certification course.</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Portable classroom labs</li> <li>Field training on the site in agreement with the customer</li> </ul>	
Course information	
Available languages	English, Dutch, German, French, Italian, Spanish, Swedish, other languages upon request
Target group	<ul style="list-style-type: none"> <li>Employees of a company or certain departments who would like to minimize travel costs and receive the training directly on their daily working site.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>
Course details	
Duration	Customized or according to the kind of course the in-house training is equivalent to.
Structure	Theory, camera handling, demos, practical labs and field training alternate.

**P/N: ITC-EXP-1021**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1021; r. 23306; en-US

Course details	
Exam	Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> </ul>
Course organization	
ITC	ITC In-house courses are offered worldwide by ITC and partners as listed. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	ITC In-house courses are lectured by ITC qualified instructors with experience in the relevant fields of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm

**P/N: ITC-EXP-1021**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1021; r. 23306; en-US

- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°

**P/N: ITC-EXP-1021**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1021; r. 23306; en-US

- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-1029

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1029  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
An on-site training can be customized upon your needs. The participants will learn about IR thermography, inspections, measurements, applications, and reporting corresponding to the level needed for performing measurements and inspection in their working environment. The trainer will give useful advice on how to best implement IR thermography in your business.	
Content	
<ul style="list-style-type: none"> <li>An on-site course can be any course, from a 1-day introduction to general thermography, over a customized application course to a complete certification course.</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Portable classroom labs</li> <li>Field training on the site in agreement with the customer</li> </ul>	
Course information	
Available languages	English, Dutch, German, French, Italian, Spanish, Swedish, other languages upon request
Target group	<ul style="list-style-type: none"> <li>Employees of a company or certain departments who would like to minimize travel costs and receive the training directly on their daily working site.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>
Course details	
Duration	Customized or according to the kind of course the in-house training is equivalent to.
Structure	Theory, camera handling, demos, practical labs and field training alternate.
Exam	Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.



**P/N: ITC-EXP-1029**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1029; r. 23306; en-US

Course details	
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> </ul>
Note	Course fee does not include cost for instructor's travelling or lodging. When organized at the customers' site, the customer is responsible for providing a suitable classroom and preferably also refreshments/lunch.
Course organization	
ITC	ITC In-house courses are offered worldwide by ITC and partners as listed. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	ITC In-house courses are lectured by ITC qualified instructors with experience in the relevant fields of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)

**P/N: ITC-EXP-1029**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1029; r. 23306; en-US

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL

**P/N: ITC-EXP-1029**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1029; r. 23306; en-US

- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-CER-5105

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5105  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 1 certified thermographer. The participant will learn about the basics of infrared, how to operate the camera under different conditions and for various purposes, how to do an appropriate judgement of the measurement situation in the field and how to identify potential error sources. After the class, the participant will be able to do IR inspections following written guidelines and to report the result of this inspection.

This partnumber is reserved for adding additional students to a level 1 on site class.

### Content

- Introduction to Thermography
- Camera Operation
- Basic physics of heat
- Basic physics of infrared
- Thermal pattern recognition and IR applications
- IR temperature measurement techniques
- Qualitative and quantitative thermography
- Inspection routines and reporting

### Student presentations

During the seminar, students will generate a small case study based on the lab exercises to be presented to the class.

### Labs

- Camera handling
- Level and Span
- Conduction pattern
- Forced convection
- Direct and indirect thermal measurement
- Thermal capacity
- Steady state and transient heat flow
- Evaporation and condensation
- Electrical application
- Emissivity and Reflected apparent temperature
- Spatial resolution
- Location and temperature measurement of a hot/cold spot
- Image transfer to the computer

**P/N: ITC-CER-5105**

© 2015, FLIR Systems, Inc.

#ITC-CER-5105; r. 23306; en-US

Course information	
Available languages	Chinese, Danish, Dutch, English, Finish, French, German, Greek, Hebrew, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (bra.), Romanian, Russian, Serbo-Croatian, Spanish, Swedish, Thai
Target group	<ul style="list-style-type: none"> <li>• Practical user</li> <li>• This course is designed for beginners in thermography with some experience in camera handling and limited IR knowledge, who want to take their first step to become a professional thermographer and want to qualify as a Level 1 certified thermographer.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>• having already some basic experience with IR thermography,</li> <li>• knowing the basic functions of the camera,</li> <li>• who wants to become a certified thermographer in order to gain a competitive advantage or who needs the certifications because of legal reasons or company internal regulations.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Be familiar with the basic operation of an infrared camera</li> <li>• Have the recommended experience within thermography according to relevant standards</li> </ul>

Course details	
Duration	35 – 40 hours
Structure	Theory and camera practice (hands-on) alternate every day, additional labs and software exercises at some days.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>• Attendance of 1 person</li> <li>• Might include more, such as lunch, depending on location and organizing entity</li> </ul>
Note	Only for non-EURO, non-SEK, non NOK, non- £, -non CHF countries

Course organization	
ITC	The Level 1 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)

**P/N: ITC-CER-5105**

© 2015, FLIR Systems, Inc.

#ITC-CER-5105; r. 23306; en-US

- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc

**P/N: ITC-CER-5105**

© 2015, FLIR Systems, Inc.

#ITC-CER-5105; r. 23306; en-US

- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-CER-5101

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5101  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 1 certified thermographer. The participant will learn about the basics of infrared, how to operate the camera under different conditions and for various purposes, how to do an appropriate judgement of the measurement situation in the field and how to identify potential error sources. After the class, the participant will be able to do IR inspections following written guidelines and to report the result of this inspection.

### Content

- Introduction to Thermography
- Camera Operation
- Basic physics of heat
- Basic physics of infrared
- Thermal pattern recognition and IR applications
- IR temperature measurement techniques
- Qualitative and quantitative thermography
- Inspection routines and reporting

### Student presentations

During the seminar, students will generate a small case study based on the lab exercises to be presented to the class.

### Labs

- Camera handling
- Level and Span
- Conduction pattern
- Forced convection
- Direct and indirect thermal measurement
- Thermal capacity
- Steady state and transient heat flow
- Evaporation and condensation
- Electrical application
- Emissivity and Reflected apparent temperature
- Spatial resolution
- Location and temperature measurement of a hot/cold spot
- Image transfer to the computer



**P/N: ITC-CER-5101**

© 2015, FLIR Systems, Inc.

#ITC-CER-5101; r. 23306; en-US

Course information	
Available languages	Chinese, Danish, Dutch, English, Finish, French, German, Greek, Hebrew, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (bra.), Romanian, Russian, Serbo-Croatian, Spanish, Swedish, Thai
Target group	<ul style="list-style-type: none"> <li>• Practical user</li> <li>• This course is designed for beginners in thermography with some experience in camera handling and limited IR knowledge, who want to take their first step to become a professional thermographer and want to qualify as a Level 1 certified thermographer.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>• having already some basic experience with IR thermography,</li> <li>• knowing the basic functions of the camera,</li> <li>• who wants to become a certified thermographer in order to gain a competitive advantage or who needs the certifications because of legal reasons or company internal regulations.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Be familiar with the basic operation of an infrared camera</li> <li>• Have the recommended experience within thermography according to relevant standards</li> </ul>

Course details	
Duration	35 – 40 hours
Structure	Theory and camera practice (hands-on) alternate every day, additional labs and software exercises at some days.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>• Attendance of 1 person</li> <li>• Might include more, such as lunch, depending on location and organizing entity</li> </ul>

Course organization	
ITC	The Level 1 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)

**P/N: ITC-CER-5101**

© 2015, FLIR Systems, Inc.

#ITC-CER-5101; r. 23306; en-US

- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)

**P/N: ITC-CER-5101**

© 2015, FLIR Systems, Inc.

#ITC-CER-5101; r. 23306; en-US

- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-CER-5109

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5109  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 1 certified thermographer. The participant will learn about the basics of infrared, how to operate the camera under different conditions and for various purposes, how to do an appropriate judgement of the measurement situation in the field and how to identify potential error sources. After the class, the participant will be able to do IR inspections following written guidelines and to report the result of this inspection.

### Content

- Introduction to Thermography
- Camera Operation
- Basic physics of heat
- Basic physics of infrared
- Thermal pattern recognition and IR applications
- IR temperature measurement techniques
- Qualitative and quantitative thermography
- Inspection routines and reporting

### Student presentations

During the seminar, students will generate a small case study based on the lab exercises to be presented to the class.

### Labs

- Camera handling
- Level and Span
- Conduction pattern
- Forced convection
- Direct and indirect thermal measurement
- Thermal capacity
- Steady state and transient heat flow
- Evaporation and condensation
- Electrical application
- Emissivity and Reflected apparent temperature
- Spatial resolution
- Location and temperature measurement of a hot/cold spot
- Image transfer to the computer

**P/N: ITC-CER-5109**

© 2015, FLIR Systems, Inc.

#ITC-CER-5109; r. 23306; en-US

Course information	
Available languages	Chinese, Danish, Dutch, English, Finish, French, German, Greek, Hebrew, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (bra.), Romanian, Russian, Serbo-Croatian, Spanish, Swedish, Thai
Target group	<ul style="list-style-type: none"> <li>• Practical user</li> <li>• This course is designed for beginners in thermography with some experience in camera handling and limited IR knowledge, who want to take their first step to become a professional thermographer and want to qualify as a Level 1 certified thermographer.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>• having already some basic experience with IR thermography,</li> <li>• knowing the basic functions of the camera,</li> <li>• who wants to become a certified thermographer in order to gain a competitive advantage or who needs the certifications because of legal reasons or company internal regulations.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Be familiar with the basic operation of an infrared camera</li> <li>• Have the recommended experience within thermography according to relevant standards</li> </ul>

Course details	
Duration	35 – 40 hours
Structure	Theory and camera practice (hands-on) alternate every day, additional labs and software exercises at some days.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>• Attendance of a group up to 10 persons</li> <li>• Might include more, such as lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>

Course organization	
ITC	The Level 1 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)

**P/N: ITC-CER-5109**

© 2015, FLIR Systems, Inc.

#ITC-CER-5109; r. 23306; en-US

- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310

**P/N: ITC-CER-5109**

© 2015, FLIR Systems, Inc.

#ITC-CER-5109; r. 23306; en-US

- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-CER-5205

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5205  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 2 certified thermographer. The participant will learn about topics in infrared thermography to increase the knowledge about infrared physics, heat science, infrared measurement equipment and its application. As a Level 2 thermographer the participant shall provide guidance to category 1 personnel in the areas of equipment selection, techniques, limitations, data analysis, corrective actions and reporting.

This partnumber is reserved for adding additional students to a level 2 on site class.

### Content

- Thermal science
- Heat transfer
- Temperature measurement
- Infrared science
- IR equipment and applications

### Student presentations

During the seminar, students shall present a prepared case study to the class. The maximum duration (excl. discussion) should be 7 minutes and the maximum number of 7 slides should not be exceeded.

### Labs (Note: Labs marked "(M)" are mandatory)

- Newton's law (class lab) (M)
- Advanced emissivity measurement (M)
- Variation of emissivity with the angle (M)
- Transient thermal transfer
- Indirect power measurement (M)
- IR-window transmission (M)
- Slit Response Function
- Hole Response Function (M)
- Parallel circuits

### Course information

Available languages	Dutch, English, German, French, Italian, Portuguese (bra.), Spanish, Swedish
Target group	<ul style="list-style-type: none"> <li>• Professional user</li> <li>• This course is designed for thermographers holding a Level 1 certificate, who want to increase their knowledge about IR thermography and who want to qualify as a Level 2 certified thermographer.</li> </ul>



**P/N: ITC-CER-5205**

© 2015, FLIR Systems, Inc.

#ITC-CER-5205; r. 23306; en-US

Course information	
Typical student	<ul style="list-style-type: none"> <li>A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>having several months of professional experience within thermography,</li> <li>versed in camera operation and reporting,</li> <li>holding a Level 1 certificate,</li> <li>who needs the Level 2 Certification for guidance and supervision of other thermographers or is interested in deeper understanding of IR thermography.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Valid Level 1 thermography certificate,</li> <li>Recommended experience within thermography according to relevant standards,</li> <li>Prepared case study to be presented at the Level 2 course and submitted towards qualification at course closing.</li> </ul>

Course details	
Duration	40 hours
Structure	Theory, camera practice (hands-on), and prepared case studies alternate every day.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>Attendance of 1 person</li> <li>Might include more, such as lunch, depending on location and organizing entity.</li> </ul>
Note	Only for non-EURO, non-SEK, non NOK, non- £, -non CHF countries

Course organization	
ITC	The Level 2 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in T560393 Courses offered by ITC partners. Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)

**P/N: ITC-CER-5205**

© 2015, FLIR Systems, Inc.

#ITC-CER-5205; r. 23306; en-US

- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°

**P/N: ITC-CER-5205**

© 2015, FLIR Systems, Inc.

#ITC-CER-5205; r. 23306; en-US

- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-CER-5201

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5201  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 2 certified thermographer. The participant will learn about topics in infrared thermography to increase the knowledge about infrared physics, heat science, infrared measurement equipment and its application. As a Level 2 thermographer the participant shall provide guidance to category 1 personnel in the areas of equipment selection, techniques, limitations, data analysis, corrective actions and reporting.

### Content

- Thermal science
- Heat transfer
- Temperature measurement
- Infrared science
- IR equipment and applications

### Student presentations

During the seminar, students shall present a prepared case study to the class. The maximum duration (excl. discussion) should be 7 minutes and the maximum number of 7 slides should not be exceeded.

### Labs (Note: Labs marked "(M)" are mandatory)

- Newton's law (class lab) (M)
- Advanced emissivity measurement (M)
- Variation of emissivity with the angle (M)
- Transient thermal transfer
- Indirect power measurement (M)
- IR-window transmission (M)
- Slit Response Function
- Hole Response Function (M)
- Parallel circuits

### Course information

Available languages	Dutch, English, German, French, Italian, Portuguese (bra.), Spanish, Swedish
Target group	<ul style="list-style-type: none"> <li>• Professional user</li> <li>• This course is designed for thermographers holding a Level 1 certificate, who want to increase their knowledge about IR thermography and who want to qualify as a Level 2 certified thermographer.</li> </ul>

**P/N: ITC-CER-5201**

© 2015, FLIR Systems, Inc.

#ITC-CER-5201; r. 23306; en-US

Course information	
Typical student	<ul style="list-style-type: none"> <li>A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>having several months of professional experience within thermography,</li> <li>versed in camera operation and reporting,</li> <li>holding a Level 1 certificate,</li> <li>who needs the Level 2 Certification for guidance and supervision of other thermographers or is interested in deeper understanding of IR thermography.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Valid Level 1 thermography certificate,</li> <li>Recommended experience within thermography according to relevant standards,</li> <li>Prepared case study to be presented at the Level 2 course and submitted towards qualification at course closing.</li> </ul>
Course details	
Duration	40 hours
Structure	Theory, camera practice (hands-on), and prepared case studies alternate every day.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>Attendance of 1 person</li> <li>Might include more, such as lunch, depending on location and organizing entity.</li> </ul>
Course organization	
ITC	The Level 2 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in T560393 Courses offered by ITC partners. Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)

**P/N: ITC-CER-5201**

© 2015, FLIR Systems, Inc.

#ITC-CER-5201; r. 23306; en-US

- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°

**P/N: ITC-CER-5201**

© 2015, FLIR Systems, Inc.

#ITC-CER-5201; r. 23306; en-US

- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-CER-5209

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5209  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 2 certified thermographer. The participant will learn about topics in infrared thermography to increase the knowledge about infrared physics, heat science, infrared measurement equipment and its application. As a Level 2 thermographer the participant shall provide guidance to category 1 personnel in the areas of equipment selection, techniques, limitations, data analysis, corrective actions and reporting.

### Content

- Thermal science
- Heat transfer
- Temperature measurement
- Infrared science
- IR equipment and applications

### Student presentations

During the seminar, students shall present a prepared case study to the class. The maximum duration (excl. discussion) should be 7 minutes and the maximum number of 7 slides should not be exceeded.

### Labs (Note: Labs marked "(M)" are mandatory)

- Newton's law (class lab) (M)
- Advanced emissivity measurement (M)
- Variation of emissivity with the angle (M)
- Transient thermal transfer
- Indirect power measurement (M)
- IR-window transmission (M)
- Slit Response Function
- Hole Response Function (M)
- Parallel circuits

### Course information

#### Available languages

Dutch, English, German, French, Italian, Portuguese (bra.), Spanish, Swedish

#### Target group

- Professional user
- This course is designed for thermographers holding a Level 1 certificate, who want to increase their knowledge about IR thermography and who want to qualify as a Level 2 certified thermographer.



**P/N: ITC-CER-5209**

© 2015, FLIR Systems, Inc.

#ITC-CER-5209; r. 23306; en-US

Course information	
Typical student	<ul style="list-style-type: none"> <li>A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>having several months of professional experience within thermography,</li> <li>versed in camera operation and reporting,</li> <li>holding a Level 1 certificate,</li> <li>who needs the Level 2 Certification for guidance and supervision of other thermographers or is interested in deeper understanding of IR thermography.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Valid Level 1 thermography certificate,</li> <li>Recommended experience within thermography according to relevant standards,</li> <li>Prepared case study to be presented at the Level 2 course and submitted towards qualification at course closing.</li> </ul>
Course details	
Duration	40 hours
Structure	Theory, camera practice (hands-on), and prepared case studies alternate every day.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as lunch, instructor's travel expenses, etc. depending on location and organizing entity.</li> </ul>
Course organization	
ITC	The Level 2 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in T560393 Courses offered by ITC partners. Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)

**P/N: ITC-CER-5209**

© 2015, FLIR Systems, Inc.

#ITC-CER-5209; r. 23306; en-US

- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°

**P/N: ITC-CER-5209**

© 2015, FLIR Systems, Inc.

#ITC-CER-5209; r. 23306; en-US

- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-EXP-2036

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2036  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This 2-day course consists of lectures on theoretical subjects, plus hands-on.

After a general review of heat and heat transfer, the participants will learn about radiative heat transfer, and thermography equipment. Intensive practice is performed on software.

### Content

- Introduction
- Review on thermal transfer
- Radiative heat transfer (includes estimation of  $T_{\text{Refl}}$  and the emissivity) (with practice)
- Thermography equipment
- Software e.g. ThermoCAM Researcher, FLIR Quickplot or FLIR ResearchIR

### Labs

- Measurements and software exercises

### Course information

Available languages	English, other languages upon request
Target group	<ul style="list-style-type: none"> <li>• Users of FLIR uncooled thermal cameras working with software programs as ThermoCAM Researcher, FLIR Quickplot or FLIR ResearchIR</li> <li>• and with infrared applications in the industry or at research institutions.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Laboratory and industry technical personnel</li> <li>• Researchers and scientists</li> <li>• University students</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic knowledge about thermography and related parameters.</li> <li>• Experience in measurement techniques and general software skills.</li> </ul>

### Course details

Duration	Standard: 2 days (in succession or separate) Upon request: Additional day including complementary topics (ITC-EXP-3006) Upon request: 1 day only (for experienced users with sufficient theoretical background)
Structure	Theory and hands-on

**P/N: ITC-EXP-2036**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2036; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training and/or reference material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 6 persons</li> </ul>
Note	This is normally an on-site course organized at a customer's facility. The fee does not include costs for instructor's travelling or lodging. The customer is responsible for providing access to the equipment or objects that should be analyzed or measured, a suitable meeting room, and preferably also refreshments/lunch.
Course organization	
ITC	The course "ITC R&D basics for industry users" is offered by ITC direct operations in EMEA. Specific customer requests shall be forwarded to the closest ITC or ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The course "ITC R&D basics for industry users" is delivered by ITC qualified instructors having the relevant expertise in advanced thermal measurement, infrared applications, and the use of the camera equipment including software programs.

**Compatible with the following products**

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°

**P/N: ITC-EXP-2036**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2036; r. 23306; en-US

- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-EXP-2025

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2025  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This full 2-day course aims at explaining how to set-up a procedure for the temperature control of population. It is designed for persons who might have to implement a control (medical authorities, customs, civil security, etc). It starts with a brief, but necessary, reminder of thermal transfers and of the fundamentals of thermography. Key factors such as NETD, drift and drift compensation, baseline measurement and update, and the factors influencing the diagnosis are explained in details. Camera setup is included. ITC recommends organizing it simultaneously to a real-size test (airport, ferry-port, seaport, river port, stadium, etc.).

This partnumber is reserved for adding additional students to a fever screening on site class.

### Content

- Introduction
- Human physiological factors
- Basic thermography
- IR Camera basics
- Fever screening methodology

### Labs

- Emissivity and Trefl
- Camera settings
- Influence of the object size on the measurement

### Course information

Available languages	English
Target group	<ul style="list-style-type: none"> <li>• Persons with professional interest in human febrile temperature screening.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Airline operative personnel</li> <li>• Reception personnel</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic technical understanding</li> <li>• Should be organized with a real-size test in the field</li> </ul>

### Course details

Duration	2 days
Structure	Theory, camera handling, demos in the morning and practical labs alternate.

**P/N: ITC-EXP-2025**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2025; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>
Course organization	
ITC	The "ITC Short Course Fever Screening" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Fever Screening" is lectured by qualified ITC instructors with special experience in human febrile temperature screening.

**Compatible with the following products**

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL



---

**P/N: ITC-EXP-2025**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2025; r. 23306; en-US

- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-EXP-2021

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2021  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This full 2-day course aims at explaining how to set-up a procedure for the temperature control of population. It is designed for persons who might have to implement a control (medical authorities, customs, civil security, etc). It starts with a brief, but necessary, reminder of thermal transfers and of the fundamentals of thermography. Key factors such as NETD, drift and drift compensation, baseline measurement and update, and the factors influencing the diagnosis are explained in details. Camera setup is included. ITC recommends organizing it simultaneously to a real-size test (airport, ferry-port, seaport, river port, stadium, etc.).

### Content

- Introduction
- Human physiological factors
- Basic thermography
- IR Camera basics
- Fever screening methodology

### Labs

- Emissivity and Trefl
- Camera settings
- Influence of the object size on the measurement

### Course information

Available languages	English
Target group	<ul style="list-style-type: none"> <li>• Persons with professional interest in human febrile temperature screening.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Airline operative personnel</li> <li>• Reception personnel</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic technical understanding</li> <li>• Should be organized with a real-size test in the field</li> </ul>

### Course details

Duration	2 days
Structure	Theory, camera handling, demos in the morning and practical labs alternate.

**P/N: ITC-EXP-2021**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2021; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by qualified ITC instructor</li> <li>• Training material in printed format</li> <li>• Diploma of attendance</li> <li>• Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>
Course organization	
ITC	The "ITC Short Course Fever Screening" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Fever Screening" is lectured by qualified ITC instructors with special experience in human febrile temperature screening.

**Compatible with the following products**

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL

**P/N: ITC-EXP-2021**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2021; r. 23306; en-US

- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-EXP-2029

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2029  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This full 2-day course aims at explaining how to set-up a procedure for the temperature control of population. It is designed for persons who might have to implement a control (medical authorities, customs, civil security, etc). It starts with a brief, but necessary, reminder of thermal transfers and of the fundamentals of thermography. Key factors such as NETD, drift and drift compensation, baseline measurement and update, and the factors influencing the diagnosis are explained in details. Camera setup is included. ITC recommends organizing it simultaneously to a real-size test (airport, ferry-port, seaport, river port, stadium, etc.).

### Content

- Introduction
- Human physiological factors
- Basic thermography
- IR Camera basics
- Fever screening methodology

### Labs

- Emissivity and Trefl
- Camera settings
- Influence of the object size on the measurement

### Course information

Available languages	English
Target group	<ul style="list-style-type: none"> <li>• Persons with professional interest in human febrile temperature screening.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Airline operative personnel</li> <li>• Reception personnel</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic technical understanding</li> <li>• Should be organized with a real-size test in the field</li> </ul>

### Course details

Duration	2 days
Structure	Theory, camera handling, demos in the morning and practical labs alternate.

**P/N: ITC-EXP-2029**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2029; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by qualified ITC instructor</li> <li>• Training material in printed format</li> <li>• Diploma of attendance</li> <li>• Attendance of a group up to 10 persons</li> <li>• Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	The "ITC Short Course Fever Screening" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Fever Screening" is lectured by qualified ITC instructors with special experience in human febrile temperature screening.

**Compatible with the following products**

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC

**P/N: ITC-EXP-2029**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2029; r. 23306; en-US

- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-EXP-1019

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1019  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This is a full one day course for beginners and everybody interested in IR thermography and its applications. The course covers the basics of IR theory and includes demos, camera hand-on and practical exercises using relevant key labs.

### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- Introduction to electrical and building inspections
- IR Camera handling
- Data analysis and reports

### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement

### Course information

Available languages	English, French, German, Swedish, Danish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in IR thermography and its applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> <li>• A person who starts to use IR cameras at work</li> <li>• Students and pupils with thermography related projects</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>

### Course details

Duration	1 day
Structure	Theory, camera handling and demos in the morning. Practical labs in the afternoon.



**P/N: ITC-EXP-1019**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1019; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	The "ITC Short Course Introduction to Thermography" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Introduction to Thermography" is lectured by qualified ITC instructors with long time experience in the various fields of thermography.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)

**P/N: ITC-EXP-1019**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1019; r. 23306; en-US

- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC



---

**P/N: ITC-EXP-1019**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1019; r. 23306; en-US

- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-1011

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1011  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This is a full one day course for beginners and everybody interested in IR thermography and its applications. The course covers the basics of IR theory and includes demos, camera hand-on and practical exercises using relevant key labs.

### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- Introduction to electrical and building inspections
- IR Camera handling
- Data analysis and reports

### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement

### Course information

Available languages	English, French, German, Swedish, Danish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in IR thermography and its applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> <li>• A person who starts to use IR cameras at work</li> <li>• Students and pupils with thermography related projects</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>

### Course details

Duration	1 day
Structure	Theory, camera handling and demos in the morning. Practical labs in the afternoon.

**P/N: ITC-EXP-1011**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1011; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>
Course organization	
ITC	The "ITC Short Course Introduction to Thermography" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Introduction to Thermography" is lectured by qualified ITC instructors with long time experience in the various fields of thermography.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)

**P/N: ITC-EXP-1011**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1011; r. 23306; en-US

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL

---

**P/N: ITC-EXP-1011**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1011; r. 23306; en-US

- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-SOW-0001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-SOW-0001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

These courses are for users of FLIR software like FLIR Reporter Professional or FLIR ResearchIR. Please observe that content and labs depend on the software used.

#### Content

- System requirements
- Configuration
- Analyzing functions
- Templates
- Reporting functions
- Data exchange

#### Labs

- System set up
- Data import
- Data analysis
- Creating templates
- Creating reports
- Exporting data
- Triggering

### Course information

Available languages	English, French, German, other languages upon request
Target group	<ul style="list-style-type: none"> <li>• Persons interested in, or users, of the specific software.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Consultants interested in reporting</li> <li>• Building inspectors with reporting needs</li> <li>• R&amp;D staff interested in advanced data analysis</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Laptop with installed software full version or 30 day demo (download on <a href="http://www.flir.com">www.flir.com</a>)</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic knowledge about thermography and related parameters.</li> </ul>

### Course details

Duration	Depends on software.
Structure	Short system introduction, then demos and practical exercises.



**P/N: ITC-SOW-0001**

© 2015, FLIR Systems, Inc.  
#ITC-SOW-0001; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>
Course organization	
ITC	Software courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Software courses are lectured by ITC qualified instructors experienced in usage of the software being subject of the class.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)

**P/N: ITC-SOW-0001**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0001; r. 23306; en-US

- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°

**P/N: ITC-SOW-0001**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0001; r. 23306; en-US

- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-SOW-0009

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-SOW-0009  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
These courses are for users of FLIR software like FLIR Reporter Professional or FLIR ResearchIR. Please observe that content and labs depend on the software used.	
Content	
<ul style="list-style-type: none"> <li>System requirements</li> <li>Configuration</li> <li>Analyzing functions</li> <li>Templates</li> <li>Reporting functions</li> <li>Data exchange</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>System set up</li> <li>Data import</li> <li>Data analysis</li> <li>Creating templates</li> <li>Creating reports</li> <li>Exporting data</li> <li>Triggering</li> </ul>	
Course information	
Available languages	English, French, German, other languages upon request
Target group	<ul style="list-style-type: none"> <li>Persons interested in, or users, of the specific software.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Consultants interested in reporting</li> <li>Building inspectors with reporting needs</li> <li>R&amp;D staff interested in advanced data analysis</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Laptop with installed software full version or 30 day demo (download on <a href="http://www.flir.com">www.flir.com</a>)</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Basic knowledge about thermography and related parameters.</li> </ul>
Course details	
Duration	Depends on software.
Structure	Short system introduction, then demos and practical exercises.

**P/N: ITC-SOW-0009**

© 2015, FLIR Systems, Inc.  
#ITC-SOW-0009; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	Software courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Software courses are lectured by ITC qualified instructors experienced in usage of the software being subject of the class.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm

**P/N: ITC-SOW-0009**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0009; r. 23306; en-US

- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°

**P/N: ITC-SOW-0009**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0009; r. 23306; en-US

- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-1001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	1 day
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>



**P/N: ITC-EXP-1001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1001; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-1001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1001; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-1001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1001; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-1009

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1009  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	1 day
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-1009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1009; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-1009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1009; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-1009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1009; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-2001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	2 days
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>



**P/N: ITC-EXP-2001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2001; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-2001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2001; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-2001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2001; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-2009

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2009  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	2 days
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-2009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2009; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-2009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2009; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-2009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2009; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-3001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-3001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	3 days
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>



**P/N: ITC-EXP-3001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3001; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-3001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3001; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-3001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3001; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-3009

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-3009  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	3 days
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-3009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3009; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-3009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3009; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-3009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3009; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-TFT-0100

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TFT-0100  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

ITC travel time for instructor

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)



**P/N: ITC-TFT-0100**

© 2015, FLIR Systems, Inc.  
#ITC-TFT-0100; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TFT-0100**

© 2015, FLIR Systems, Inc.  
#ITC-TFT-0100; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TOL-1003

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1003  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (Center and South Africa)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1003**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1003; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TOL-1003**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1003; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TOL-1001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (Europe, Balcans, Turkey, Cyprus)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1001**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1001; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TOL-1001**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1001; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5



## P/N: ITC-TOL-1005

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1005  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (other)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1005**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1005; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TOL-1005**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1005; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TOL-1002

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1002  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (Russia/GUS, Middle East, North Africa)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1002**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1002; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TOL-1002**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1002; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TOL-1004

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1004  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (various)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1004**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1004; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC



**P/N: ITC-TOL-1004**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1004; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

# Accessories for FLIR A6xx series

---

## P/N: T197914

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197914  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
The 15° lens is a popular lens accessory and provides 1.7× magnification compared to the standard lens. Ideal for small or distant targets such as overhead power lines.	
Imaging and optical data	
Field of view (FOV)	15° × 11° (19° diagonally)
Minimum focus distance	500 mm (19.69 in.)
Focal length	41.3 mm (1.63 in.)
Spatial resolution (IFOV)	0.41 mrad
Lens identification	Automatic
F-number	1.0
Number of lenses	3 (3 asph)
MTF @ 70% of FOV	Normal requirements (52%)
Distortion	3%
Physical data	
Weight	0.190 kg (0.419 lb.)
Size (L × D)	47 × 67 mm (1.85 × 2.64 in.)
Front lens diameter	52 mm (2.05 in.)
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Lens</li> <li>• Lens case</li> <li>• Front lens cap</li> <li>• Rear lens cap</li> </ul>
Packaging, weight	0.427 kg (0.95 lb.)
Packaging, size	174 × 133 × 133 mm (6.85 × 5.24 × 5.24 in.)
EAN-13	7332558004449
UPC-12	845188002671
Country of origin	Sweden

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)

**P/N: T197914**

© 2015, FLIR Systems, Inc.  
#T197914; r. 23380; en-US

- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: T197922

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197922  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
The standard 25° lens is suitable for the majority of applications.	
Imaging and optical data	
Field of view (FOV)	25° × 19° (31° diagonally)
Minimum focus distance	250 mm (9.84 in.)
Focal length	24.6 mm (0.97 in.)
Spatial resolution (IFOV)	0.69 mrad
Lens identification	Automatic
F-number	1.0
Number of lenses	3 (3 asph)
MTF @ 70% of FOV	Normal requirements (52%)
Distortion	3%
Physical data	
Weight	0.160 kg (0.353 lb.)
Size (L × D)	41 × 67 mm (1.61 × 2.64 in.)
Front lens diameter	32 mm (1.26 in.)
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Lens</li> <li>• Lens case</li> <li>• Front lens cap</li> <li>• Rear lens cap</li> </ul>
Packaging, weight	0.380 kg (0.84 lb.)
Packaging, size	174 × 133 × 133 mm (6.9 × 5.2 × 5.2 in.)
EAN-13	7332558004432
UPC-12	845188004439
Country of origin	Sweden

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)

**P/N: T197922**

© 2015, FLIR Systems, Inc.  
#T197922; r. 23380; en-US

- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: T197915

### Copyright

© 2015, FLIR Systems, Inc.

All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197915

Commit: 23380

Language: en-US

Modified: 2015-02-24 14:12

Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.

27700 SW Parkway Ave.

Wilsonville, OR 97070

USA

Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This wide angle lens has a field of view almost double that of the standard 25° lens. Perfect for wide or tall targets or when working in confined areas.	
Imaging and optical data	
Field of view (FOV)	45° × 34° (55° diagonally)
Minimum focus distance	150 mm (5.91 in.)
Focal length	13.1 mm (0.52 in.)
Spatial resolution (IFOV)	1.30 mrad
Lens identification	Automatic
F-number	1.0
Number of lenses	3 (3 asph)
MTF @ 70% of FOV	Normal requirements (52%)
Distortion	3%
Physical data	
Weight	0.209 kg (0.461 lb.)
Size (L × D)	50 × 67 mm (1.97 × 2.64 in.)
Front lens diameter	30 mm (1.18 in.)
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Lens</li> <li>• Lens case</li> <li>• Front lens cap</li> <li>• Rear lens cap</li> </ul>
Packaging, weight	0.430 kg (0.95 lb.)
Packaging, size	172 × 131 × 133 mm (6.8 × 5.2 × 5.2 in.)
EAN-13	7332558004463
UPC-12	845188002688
Country of origin	Sweden

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)

**P/N: T197915**

© 2015, FLIR Systems, Inc.  
#T197915; r. 23380; en-US

- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°



## P/N: T198059

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198059  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
For R&D usage or development purposes. As an example looking at PCB's or small electronic components.	
Imaging and optical data	
Field of view (FOV)	32 × 24 mm (40 mm diagonally)
Magnifying factor	2.9×
Working distance	84 mm
Depth of field	0.65 mm
Focal length	78 mm
Spatial resolution (IFOV)	50 μm
Lens identification	Manual
F-number	1.0
Number of lenses	2 (2 asph)
MTF @ 70% of FOV	Normal requirements (52%)
Distortion	3%
Lens note	The close-up lens is mounted on the 25° lens
Physical data	
Weight	0.197 kg (0.43 lb.)
Size (L × D)	32 × 67 mm
Front lens diameter	53 mm
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Lens</li> <li>• Front lens cap</li> <li>• Rear lens cap</li> <li>• Case</li> <li>• Instruction for mounting close-up lenses</li> </ul>
Packaging, weight	0.440 kg (0.97 lb.)
Packaging, size	172 × 131 × 133 mm (6.8 × 5.2 × 5.2 in.)
EAN-13	7332558005583
UPC-12	845188005795
Country of origin	Sweden

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)

**P/N: T198059**

© 2015, FLIR Systems, Inc.  
#T198059; r. 23380; en-US

- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 55001-0102; FLIR A615 25°
- 55001-0202; FLIR A645sc 25°
- 55001-0302; FLIR A655sc 25°

## P/N: T198060

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198060  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
For R&D usage or development purposes. As an example looking at PCB's or small electronic components.	
Imaging and optical data	
Field of view (FOV)	64 × 48 mm (80 mm diagonally)
Magnifying factor	5.8×
Working distance	172 mm
Depth of field	2.8 mm
Focal length	149 mm
Spatial resolution (IFOV)	100 μm
Lens identification	Manual
F-number	1.0
Number of lenses	2 (2 asph)
MTF @ 70% of FOV	Normal requirements (52%)
Distortion	3%
Lens note	The close-up lens is mounted on the 25° lens
Physical data	
Weight	0.176 kg (0.39 lb.)
Size (L × D)	28 × 67 mm
Front lens diameter	53 mm
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Lens</li> <li>• Front lens cap</li> <li>• Rear lens cap</li> <li>• Case</li> <li>• Instruction for mounting close-up lenses</li> </ul>
Packaging, weight	0.426 kg (0.84 lb.)
Packaging, size	172 × 131 × 133 mm (6.8 × 5.2 × 5.2 in.)
EAN-13	84518805757
UPC-12	73325585545
Country of origin	Sweden

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)

**P/N: T198060**

© 2015, FLIR Systems, Inc.  
#T198060; r. 23380; en-US

- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 55001-0102; FLIR A615 25°
- 55001-0202; FLIR A645sc 25°
- 55001-0302; FLIR A655sc 25°

## P/N: T198065

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198065  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This wide angle lens has a field of view approximately three times that of the standard 25° lens. This lens is suitable for extremely cramped situations where the operator can not step farther back from the object.	
Imaging and optical data	
Field of view (FOV)	80° × 64.4° ( 92.8° diagonal)
Minimum focus distance	65 mm (2.6 in.)
Focal length	6.5 mm (0.26 in.)
Spatial resolution (IFOV)	2.62 mrad
Lens identification	Automatic
F-number	1.0
Number of lenses	5 (5 asph)
MTF @ 70% of FOV	Normal requirements (52%)
Distortion	5%
Physical data	
Weight	0.428 kg (0.944 lb.)
Size (L × D)	126 × 67 mm (4.96 × 2.64 in.)
Front lens diameter	25 mm 0.98 in.)
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Lens</li> <li>• Lens case</li> <li>• Front lens cap</li> <li>• Rear lens cap</li> </ul>
Packaging, weight	0.680 kg (1.5 lb.)
Packaging, size	174 × 133 × 133 mm (6.9 × 5.2 × 5.2 in.)
EAN-13	7332558004418
UPC-12	845188004415
Country of origin	Sweden

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)

**P/N: T198065**

© 2015, FLIR Systems, Inc.  
#T198065; r. 23380; en-US

- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: T198165

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198165  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
The 7° lens is a popular accessory and provides 3.6× magnification compared to the standard lens. Ideal for small or distant targets such as overhead power lines.	
Imaging and optical data	
Field of view (FOV)	7° × 5.3° (8.7° diagonally)
Minimum focus distance	2.0 m (6.6 ft.)
Focal length	88.9 mm (3.5 in.)
Spatial resolution (IFOV)	0.19 mrad
Lens identification	Automatic
F-number	1.3
Number of lenses	3 (3 asph)
MTF @ 70% of FOV	Normal requirements (52%)
Distortion	3%
Physical data	
Weight	0.88 kg (1.94 lb.)
Weight, lens	0.71 kg (1.57 lb.)
Size (L × D)	96 × 126 mm (3.78 × 4.96 in.), excluding support
Front lens diameter	96 mm (3.78 in.)
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Lens</li> <li>• Lens case</li> <li>• Front lens cap</li> <li>• Rear lens cap</li> <li>• Mounting support</li> <li>• Lens mounting instructions</li> </ul>
Packaging, weight	1.748 kg (3.9 lb.)
Packaging, size	385 × 308 × 165 mm (15.2 × 12.1 × 6.5 in.)
EAN-13	7332558005798
UPC-12	845188006006
Country of origin	Sweden

### Compatible with the following products

- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°



IR lens, f=88.9 mm (7°) with case and support for A6xx/A6xxsc

---

**P/N: T198165**

© 2015, FLIR Systems, Inc.  
#T198165; r. 23380; en-US

- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°



## P/N: T198066

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198066  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
For R&D usage or development purposes. As an example looking at PCB's or small electronic components.	
Imaging and optical data	
Field of view (FOV)	16 × 12 mm (20 mm diagonally)
Magnifying factor	1.5×
Working distance	46 mm
Depth of field	0.21 mm
Focal length	62 mm
Spatial resolution (IFOV)	25 µm
Lens identification	Automatic
F-number	1.1
Number of lenses	4 (4 asph)
MTF @ 70% of FOV	Normal requirements (52%)
Distortion	< 3%
Physical data	
Weight	0.48 kg (1.1 lb.)
Size (L × D)	86 × 67 mm
Front lens diameter	52 mm
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Lens</li> <li>• Front lens cap</li> <li>• Rear lens cap</li> <li>• Case</li> <li>• Instruction for mounting close-up lenses</li> </ul>
Packaging, weight	0.737 kg (1.6 lb.)
Packaging, size	172 × 131 × 133 mm (6.8 × 5.2 × 5.2 in.)
EAN-13	73325585552
UPC-12	84518805764
Country of origin	Sweden

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)

**P/N: T198066**

© 2015, FLIR Systems, Inc.  
#T198066; r. 23380; en-US

- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°

## P/N: T197896

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197896  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

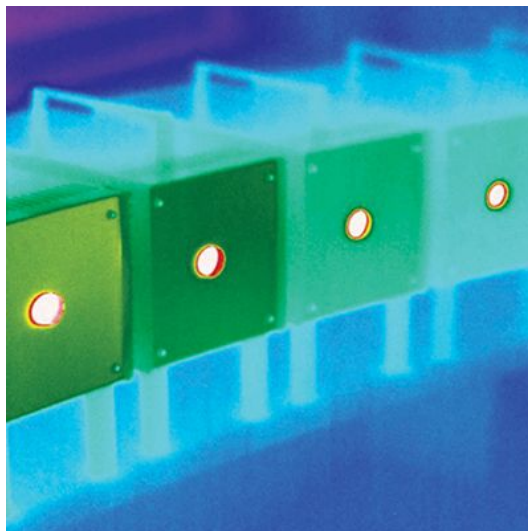
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
For high temperature applications the camera can be calibrated for high temperature ranges.	
Measurement	
Optional object temperature range	+300°C to +2000°C (+572°F to +3632°F)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°



High temp option +300°C to 2000°C (+572°F to 3632°F) for FLIR A6xxsc and T6xx

---

**P/N: T197896**

© 2015, FLIR Systems, Inc.  
#T197896; r. 23306; en-US

- 55001-0305; FLIR A655sc 80°

## P/N: 1910400

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1910400  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Power cord (EU) for the power supply (1910585) used together with the FLIR A/SC3xx and A/SC6xx series.	
The power supply (1910585) itself is discontinued and replaced by a new power supply (which includes multi plugs and another power cable).	
Power system	
AC operation	250 V 16 A
Physical data	
Cable length	2.0 m (6.6 ft.)
Color	Black
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009253
UPC-12	845188009786
Country of origin	Sweden

### Compatible with the following products

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°



## Power cord EU

---

### P/N: 1910400

© 2015, FLIR Systems, Inc.  
#1910400; r. 23306; en-US

- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: 1910401

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1910401  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Power cord (US) for the power supply (1910585) used together with the FLIR A/SC3xx and A/SC6xx series.	
The power supply (1910585) itself is discontinued and replaced by a new power supply (which includes multi plugs and another power cable).	
Power system	
AC operation	125 V 15 A
Physical data	
Cable length	2.0 m (6.6 ft.)
Color	Black
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009260
UPC-12	845188009793
Country of origin	Sweden

### Compatible with the following products

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°



## Power cord US

---

### P/N: 1910401

© 2015, FLIR Systems, Inc.  
#1910401; r. 23306; en-US

- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°



**P/N: 1910402**

**Copyright**

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

**Document identity**

Publ. No.: 1910402  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

**Corporate Headquarters**

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

**Website**

<http://www.flir.com>

**Customer support**

<http://support.flir.com>

**Disclaimer**

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Power cord (UK) for the power supply (1910585) used together with the FLIR A/SC3xx and A/SC6xx series.	
The power supply (1910585) itself is discontinued and replaced by a new power supply (which includes multi plugs and another power cable).	
Power system	
AC operation	250 V 13 A
Physical data	
Cable length	2.0 m (6.6 ft.)
Color	Black
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009277
UPC-12	845188009809
Country of origin	Sweden

**Compatible with the following products**

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°



## Power cord UK

---

### P/N: 1910402

© 2015, FLIR Systems, Inc.  
#1910402; r. 23306; en-US

- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: T910922

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T910922  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Power supply, incl. multi plugs	
Power system	
AC operation	100–240 VAC, 50/60 Hz, 12 VDC out
Power	2000 mA at 12 VDC
Physical data	
Size (L x W x H)	81 x 47 x 34 mm (3.2 x 1.9 x 1.3 in.)
Cable length	1.5 m (4.9 ft.)
Color	Black
Shipping information	
List of contents	<ul style="list-style-type: none"> <li>Power supply including cable</li> <li>EU plug</li> <li>UK plug</li> <li>US plug</li> <li>AU plug</li> </ul>
EAN-13	7332558009284
UPC-12	845188009816
Country of origin	Sweden

### Compatible with the following products

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°



Power supply, incl. multi plugs, for A3xx, A3xxsc, A6xx and A6xxsc

---

**P/N: T910922**

© 2015, FLIR Systems, Inc.  
#T910922; r. 23306; en-US

- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: T911182

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T911182  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Power supply for A3xx f cameras with IP 66 classification.	
Power system	
AC operation	100–240 V, 50–60 Hz, 0.9–0.2 A
DC operation	Output: 24 VDC 2.0 A
Power	50 W
Environmental data	
Operating temperature range	–30°C to +50°C (–22°F to +122°F)
Physical data	
Weight	0.850 kg (1.9 lb.)
Size (L × W × H)	150 × 101 × 47 mm (5.9 × 3.98 × 1.85 in.)
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009291
UPC-12	845188009823
Country of origin	Sweden

### Compatible with the following products

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°



---

**P/N: T911182**

© 2015, FLIR Systems, Inc.  
#T911182; r. 23306; en-US

- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

**P/N: 1910423**

**Copyright**

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

**Document identity**

Publ. No.: 1910423  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

**Corporate Headquarters**

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

**Website**

<http://www.flir.com>

**Customer support**

<http://support.flir.com>

**Disclaimer**

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This cable is used to connect the infrared camera with a computer, using the USB protocol.	
Physical data	
Weight	60 g (2.1 oz.)
Cable length	1.8 m (5.9 ft.)
Connector	Standard USB-A to USB Mini-B
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558003428
UPC-12	845188002176
Country of origin	Sweden

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)

**P/N: 1910423**

© 2015, FLIR Systems, Inc.  
#1910423; r. 23306; en-US

- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40





---

**P/N: 1910423**

© 2015, FLIR Systems, Inc.  
#1910423; r. 23306; en-US

- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72201-0106; FLIR K45
- 72201-0206; FLIR K55

## P/N: T951004ACC

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T951004ACC  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This cable is used to connect the infrared camera to Ethernet.	
Physical data	
Weight	80 g (2.8 oz.)
Cable length	2.0 m (6.6 ft.)
Connector	RJ-45 to RJ-45
Cable type	CAT-6
Shipping information	
Packaging, type	Cardboard box
Packaging, weight	130 g (4.6 oz.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558006320
UPC-12	845188006679
Country of origin	Sweden

### Compatible with the following products

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)

---

**P/N: T951004ACC**

© 2015, FLIR Systems, Inc.  
#T951004ACC; r. 23306; en-US

- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: 1910586ACC

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1910586ACC  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This cable is used, when a separate power supply is used (not the one supplied with the camera)	
Physical data	
Weight	75 g (2.6 oz.)
Cable length	2.0 m (6.6 ft.)
Connector	Pigtailed
Color	Black
Shipping information	
Packaging, type	Cardboard box
Packaging, weight	163 g (5.7 oz.)
Packaging, size	170 × 64 × 75 mm (6.69 × 2.52 × 2.95 in.)
EAN-13	7332558006375
UPC-12	845188006723
Country of origin	Sweden

### Compatible with the following products

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°



## Power cable, pigtailed

---

### P/N: 1910586ACC

© 2015, FLIR Systems, Inc.  
#1910586ACC; r. 23306; en-US

- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: T197871ACC

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197871ACC  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Rugged, watertight plastic case for FLIR A3xx, A3xxsc, A6xx and A6xxsc series. Holds all items neatly and securely. The case can be locked with padlocks and features a breather valve to prevent pressure build-up in airplane cargo holds.

### Physical data

Weight	3.1 kg (6.8 lb.)
Size (L x W x H)	463 x 346 x 172 mm (18.2 x 13.6 x 6.8 in.)
Color	Black

### Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Hard transport case</li> </ul>
Packaging, weight	3.45 kg (7.6 lb.)
Packaging, size	495 x 370 x 192 mm (19.5 x 14.6 x 7.6 in.)
EAN-13	7332558008331
UPC-12	845188008680
Country of origin	Sweden

### Compatible with the following products

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°



## Hard transport case for A3xx, A3xxsc, A6xx and A6xxsc series

---

**P/N: T197871ACC**

© 2015, FLIR Systems, Inc.

#T197871ACC; r. 23306; en-US

- 55001-0305; FLIR A655sc 80°

## P/N: T197870ACC

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197870ACC  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Cardboard box with plastic handle for the A3xx, A3xxsc, A6xx and A6xxsc series. Holds all items neatly.	
Physical data	
Weight	0.86 kg (1.9 lb.)
Size (L x W x H)	455 x 300 x 165 mm (17.9 x 11.8 x 6.5 in.)
Material	Cardboard
Shipping information	
Packaging, type	Cardboard box
List of contents	• Transport case
Packaging, weight	1.25 kg (2.76 lb.)
Packaging, size	495 x 370 x 192 mm (19.5 x 14.6 x 7.6 in.)
EAN-13	7332558008324
UPC-12	845188008673
Country of origin	Sweden

### Compatible with the following products

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°





## Cardboard box for A3xx, A3xxsc, A6xx and A6xxsc series

---

**P/N: T197870ACC**

© 2015, FLIR Systems, Inc.

#T197870ACC; r. 23306; en-US

- 55001-0305; FLIR A655sc 80°

## P/N: T126889ACC

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T126889ACC  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The filter holder makes it possible to use filters with FLIR A6xx and FLIR A6xx sc series cameras. A filter is glued into the filter holder, and the filter holder is then mounted on the lens by screwing the holder onto the rear of the lens.

Dimensions for filter:

Diameter: 25.4 mm +0.1/-0.15 mm (1 in. +0.004/-0.006 in.).

Maximum thickness: 1.0 mm (0.04 in.).

Minimum free filter area diameter: 24 mm (0.94 in.)

NOTE: Filter is not included.

### Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Filter holder</li> <li>Plastic bag</li> <li>Printed instruction</li> </ul>
Packaging, weight	0.059 kg (0.13 lb.)
Packaging, size	202 x 146 x 25 mm (8 x 5.7 x 1 in.)
EAN-13	7332558007273
UPC-12	845188007645
Country of origin	Sweden

### Compatible with the following products

- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: T198584

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198584  
Commit: 25122  
Language: en-US  
Modified: 2015-04-29 09:51  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

FLIR Tools is a software suite specifically designed to provide an easy way to update your camera and create inspection reports.

#### Key features:

- Report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR).
- Manual IR/Visual Image Grouping
- Import images from your camera to your computer.
- Apply filters when searching for images.
- Search all text in images and text annotations.
- Store the five latest search criteria's.
- Lay out, move, and resize measurement tools on any infrared image.
- Create PDF imagesheets of any images of your choice.
- Add headers, footers, and logos to imagesheets.
- Create PDF reports for images of your choice.
- Add headers, footers, and logos to reports.
- Report editor (report page preview and snap to grid).
- Sort function (by date, groups sorted by path, and groups sorted by date).
- Browse and purchase infrared cameras, software, and accessories in the webshop.
- Software localized to 21 languages.
- Support for MSX (Multi-Spectral Dynamic Imaging ) Images
- Support for Sketch Images on both IR and Visual with toggling ON/OFF feature.
- Support for Same FOV ( Field of View Match )
- Display of Compass Information in Edit and in Report.
- Display of GPS Information in Edit and in Report.
- Microsoft Windows 7 (32- and 64-bit) and Windows 8 (32- and 64-bit)
- Camera update (applies to FLIR Ex, Kxx, Exx and T6xx series only).

### Download

This software is a freeware. To download, click the following link:

<http://support.flir.com/tools>

### Release notes

Version	5.2
New features in version 5.2	<ul style="list-style-type: none"> <li>• Support for auto-adjusting a region.</li> <li>• Support for zoom.</li> <li>• Various bug fixes.</li> </ul>
New features in version 5.1	<ul style="list-style-type: none"> <li>• Improved import performance.</li> <li>• Added support for video recording settings for FLIR Kxx series.</li> <li>• Added support for importing video files from FLIR Kxx series.</li> <li>• Added support for FLIR C2 camera.</li> <li>• Various bug fixes.</li> </ul>

**P/N: T198584**

© 2015, FLIR Systems, Inc.  
#T198584; r. 25122; en-US

Release notes	
New features in version 5.0	<ul style="list-style-type: none"> <li>Local object parameters for measurement tools.</li> <li>Save a report in-process with the ability to edit at a later time.</li> <li>Pull-down menus for text annotations.</li> <li>Variable playback speed for recordings.</li> <li>Show or hide min./max./avg. temperature, and hot/cold markers, for areas and lines.</li> <li>Smoother display for low-resolution images.</li> <li>UltraMax image enhancement.</li> <li>Dropping support for Windows XP.</li> <li>Various bug fixes.</li> </ul>
New features in version 4.1	<ul style="list-style-type: none"> <li>Previous/next in Edit mode.</li> <li>Clone in the Library.</li> <li>Extract visual photo from a multispectral image.</li> <li>Import *.mp4, *.seq, and *.csq files from the camera.</li> <li>Playback/edit *.seq and *.csq files.</li> <li>Scale enhancement for the FLIR GF3xx series.</li> <li>Auto resize of thumbnails during importing for the FLIR T6xx series.</li> <li>Grouping/ungrouping now added.</li> <li>Various bug fixes.</li> </ul>
New features in version 4.0	<ul style="list-style-type: none"> <li>Support for the new FLIR Ex and Exx series cameras.</li> <li>Interactive quick start guide when connecting a FLIR camera.</li> <li>Improved library view.</li> <li>Support for multispectral images.</li> <li>Support for auto-oriented images.</li> <li>Various bug fixes.</li> </ul>
New features in version 3.1	<ul style="list-style-type: none"> <li>Support for FLIR K series cameras.</li> <li>Interactive quick start guide when connecting a FLIR K series camera.</li> <li>Live image streaming from FLIR K series cameras.</li> <li>PC-side configuration of FLIR K series cameras.</li> <li>New report templates for DC images only added.</li> <li>Various bug fixes.</li> </ul>
New features in version 3.0	<ul style="list-style-type: none"> <li>Add folder to library.</li> <li>Support for isotherms and color alarms</li> <li>Image description for both IR and DC.</li> <li>Export functionality (*.avi, *.csv).</li> <li>Microsoft Windows 8 (32- and 64-bit)</li> <li>New web installer</li> <li>Various bug fixes.</li> </ul>
New features in version 2.2	<ul style="list-style-type: none"> <li>Camera tab: <ul style="list-style-type: none"> <li>Logging feature in Camera Tab</li> <li>Recording and playback of SEQ files.</li> </ul> </li> <li>Various bug fixes.</li> </ul>
New features in version 2.1	<ul style="list-style-type: none"> <li>New Text Comment Template Tab: <ul style="list-style-type: none"> <li>Create, Edit and Transfer templates to and from any FLIR Camera.</li> <li>Import and Export of Templates.</li> </ul> </li> <li>Support for MSX (Multi-Spectral Dynamic Imaging ) Images</li> <li>Support for Sketch Images on both IR and Visual with toggling ON/OFF feature.</li> <li>Support for Same FOV ( Field of View Match )</li> <li>Display of Compass Information in Edit and in Report.</li> <li>Display of GPS Information in Edit and in Report. <ul style="list-style-type: none"> <li>Direct Link to Google Maps for GPS Tagged images from Report.</li> </ul> </li> <li>Support for 3x5 and 6x5 A-series cameras</li> </ul>

**P/N: T198584**

© 2015, FLIR Systems, Inc.  
#T198584; r. 25122; en-US

Release notes	
New features in version 2.0	<ul style="list-style-type: none"> <li>Camera tab: <ul style="list-style-type: none"> <li>Camera connection with FLIR UVC cameras.</li> <li>Measurement data analysis.</li> <li>Plotting.</li> <li>Snapshot saving with text annotation and plot.</li> </ul> </li> <li>Performance improvement for large reports: can now create reports and imagesheets of up to 200 pages.</li> <li>Various bug fixes.</li> </ul>
New features in version 1.3	<ul style="list-style-type: none"> <li>Import from ix series cameras.</li> <li>Add and remove a form from a group.</li> <li>Text comments are now saved in the infrared image.</li> <li>The indexing engine can create groups from IR, DC, and text annotations when indexing the paths in the watch folder.</li> <li>Arrow tool in the report toolbar.</li> <li>Reorder pages.</li> <li>Text annotations can now be edited in the report.</li> <li>New report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR).</li> <li>New sample images.</li> </ul>
New features in version 1.2 SP1	<ul style="list-style-type: none"> <li>Various bug fixes.</li> </ul>
New features in version 1.2	<ul style="list-style-type: none"> <li>Search function: <ul style="list-style-type: none"> <li>Store the five latest search criterias.</li> <li>Search in all texts in images and text annotations.</li> </ul> </li> <li>Sort function: <ul style="list-style-type: none"> <li>By date.</li> <li>Groups sorted by by path.</li> <li>Groups sorted by date.</li> </ul> </li> <li>Report editor: <ul style="list-style-type: none"> <li>Report page preview.</li> <li>Snap to grid.</li> <li>Various bug fixes.</li> </ul> </li> </ul>
New features in version 1.1 SP1	<ul style="list-style-type: none"> <li>Extension to the camera update functionality.</li> <li>Various bug fixes</li> </ul>
New features in version 1.1	<ul style="list-style-type: none"> <li>Software localized to 21 languages.</li> <li>Camera update. (Exx, T6xx)</li> <li>Option to rotate an infrared image in the infrared editor.</li> </ul>

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Digital download, or</li> <li>CD-ROM</li> </ul>
Packaging, weight	0.106 kg (0.23 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005279
UPC-12	845188005481
Country of origin	Sweden

System requirements	
Operating system	<ul style="list-style-type: none"> <li>Windows XP, 32-bit</li> <li>Windows Vista, 32-bit</li> <li>Windows 7, 32-bit</li> <li>Windows 7, 64-bit</li> <li>Windows 8, 32-bit</li> <li>Windows 8, 64-bit</li> </ul>

**P/N: T198584**

© 2015, FLIR Systems, Inc.  
#T198584; r. 25122; en-US

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm

**P/N: T198584**

© 2015, FLIR Systems, Inc.  
#T198584; r. 25122; en-US

- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

**P/N: T198584**

© 2015, FLIR Systems, Inc.  
#T198584; r. 25122; en-US

- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72001-0101; FLIR C2



**P/N: T198583**

## Copyright

© 2015, FLIR Systems, Inc.

All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: T198583

Commit: 25121

Language: en-US

Modified: 2015-04-29 09:50

Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.

27700 SW Parkway Ave.

Wilsonville, OR 97070

USA

Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

Compared to FLIR Tools, FLIR Tools+ has the following features:

- Radiometric Panorama incl. MSX
- Radiometric IR Video Recording
- Advanced Reporting

FLIR Tools/Tools+ is a software suite specifically designed to provide an easy way to update your camera and create inspection reports.

FLIR Tools+ main features:

- Manual IR/Visual Image Grouping
- Radiometric Panorama incl. MSX
- Radiometric IR Video Recording
- Advanced Reporting - Microsoft Office 2007 (32bit), and 2010 (32bit) support
- Report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR).
- Import images from your camera to your computer.
- Apply filters when searching for images.
- Search all text in images and text annotations.
- Store the five latest search criteria's.
- Lay out, move, and resize measurement tools on any infrared image.
- Create PDF imagesheets of any images of your choice.
- Add headers, footers, and logos to imagesheets.
- Create PDF reports for images of your choice.
- Add headers, footers, and logos to reports.
- Report editor (report page preview and snap to grid).
- Sort function (by date, groups sorted by path, and groups sorted by date).
- Browse and purchase infrared cameras, software, and accessories in the webshop.
- Software localized to 21 languages.
- Support for MSX (Multi-Spectral Dynamic Imaging ) Images
- Support for Sketch Images on both IR and Visual with toggling ON/OFF feature.
- Support for Same FOV ( Field of View Match )
- Display of Compass Information in Edit and in Report.
- Display of GPS Information in Edit and in Report.
- Microsoft Windows 7 (32- and 64-bit) and Windows 8 (32- and 64-bit)
- Camera update (applies to FLIR Ex, Kxx, Exx and T6xx series only).

## Download

Download a 30-day evaluation version here:

<http://support.flir.com/toolsplus>

## Release notes

Version	5.2
New features in version 5.2	<ul style="list-style-type: none"> <li>• Support for auto-adjusting a region.</li> <li>• Support for zoom.</li> <li>• Express Microsoft Word reporting (*.docx).</li> <li>• Various bug fixes.</li> </ul>

**P/N: T198583**

© 2015, FLIR Systems, Inc.  
#T198583; r. 25121; en-US

Release notes	
New features in version 5.1	<ul style="list-style-type: none"> <li>Improved import performance.</li> <li>Added support for video recording settings for FLIR Kxx series.</li> <li>Added support for importing video files from FLIR Kxx series.</li> <li>Added support for FLIR C2 camera.</li> <li>Various bug fixes.</li> </ul>
New features in version 5.0	<ul style="list-style-type: none"> <li>Local object parameters for measurement tools.</li> <li>Save a report in-process with the ability to edit at a later time.</li> <li>Pull-down menus for text annotations.</li> <li>Variable playback speed for recordings.</li> <li>Show or hide min./max./avg. temperature, and hot/cold markers, for areas and lines.</li> <li>Smoother display for low-resolution images.</li> <li>UltraMax image enhancement.</li> <li>Dropping support for Windows XP.</li> <li>Various bug fixes.</li> </ul>
New features in version 4.1	<ul style="list-style-type: none"> <li>Previous/next in Edit mode.</li> <li>Clone in the Library.</li> <li>Extract visual photo from a multispectral image.</li> <li>Import *.mp4, *.seq, and *.csq files from the camera.</li> <li>Playback/edit *.seq and *.csq files.</li> <li>Scale enhancement for the FLIR GF3xx series.</li> <li>Auto resize of thumbnails during importing for the FLIR T6xx series.</li> <li>Grouping/ungrouping now added.</li> <li>Various bug fixes.</li> </ul>
New features in version 4.0	<ul style="list-style-type: none"> <li>Support for the new FLIR Ex and Exx series cameras.</li> <li>Interactive quick start guide when connecting a FLIR camera.</li> <li>Improved library view.</li> <li>Support for multispectral images.</li> <li>Support for auto-oriented images.</li> <li>Various bug fixes.</li> </ul>
New features in version 3.1	<ul style="list-style-type: none"> <li>Support for FLIR K series cameras.</li> <li>Interactive quick start guide when connecting a FLIR K series camera.</li> <li>Live image streaming from FLIR K series cameras.</li> <li>PC-side configuration of FLIR K series cameras.</li> <li>New report templates for DC images only added.</li> <li>Various bug fixes.</li> </ul>
New features in version 3.0	<ul style="list-style-type: none"> <li>Add folder to library.</li> <li>Support for isotherms and color alarms</li> <li>Image description for both IR and DC.</li> <li>Export functionality (*.avi, *.csv).</li> <li>Microsoft Windows 8 (32- and 64-bit)</li> <li>New web installer</li> <li>Radiometric panorama with MSX images.</li> <li>Advanced reports.</li> <li>Manual grouping/ungrouping of images.</li> <li>Various bug fixes.</li> </ul>
New features in version 2.2	<ul style="list-style-type: none"> <li>Camera tab: <ul style="list-style-type: none"> <li>Logging feature in Camera Tab</li> <li>Recording and playback of SEQ files.</li> </ul> </li> <li>Various bug fixes.</li> </ul>
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>FLIR Tools+ scratchcard</li> </ul>
Packaging, weight	0.059 kg (0.13 lb.)

**P/N: T198583**

© 2015, FLIR Systems, Inc.  
#T198583; r. 25121; en-US

Shipping information	
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	73325585378 4743254001442 (Estonia plant)
UPC-12	845188005580
Country of origin	Sweden
System requirements	
Operating system	<ul style="list-style-type: none"> <li>Windows XP, 32-bit</li> <li>Windows Vista, 32-bit</li> <li>Windows 7, 32-bit</li> <li>Windows 7, 64-bit</li> <li>Windows 8, 32-bit</li> <li>Windows 8, 64-bit</li> </ul>
Software requirements	<ul style="list-style-type: none"> <li>Office 2007, 32-bit</li> <li>Office 2010, 32-bit</li> <li>Office 2013, 32-bit</li> </ul>

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)

**P/N: T198583**

© 2015, FLIR Systems, Inc.  
#T198583; r. 25121; en-US

- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens

**P/N: T198583**

© 2015, FLIR Systems, Inc.  
#T198583; r. 25121; en-US

- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 63901-0101; FLIR E4
- 63905-0501; FLIR E5
- 63902-0202; FLIR E6
- 63903-0303; FLIR E8

## P/N: DSW-10000

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: DSW-10000  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

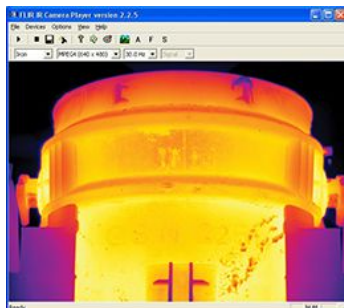
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

FLIR IR Camera Player is a PC-based remote control and viewer that you can use with cameras from FLIR Systems.

You can perform one or more of the following with FLIR IR Camera Player:

- Record a video stream from the camera.
- Save a frame from the video stream as a snapshot image (\*.bmp).
- Autofocus, focus far, and focus near.
- Autoadjust the camera image.
- Freeze the camera image.
- Save a camera image in the camera.
- Change Color palette.
- Add an image description and a text comment to an image.

You connect a camera in one of the following ways:

- Ethernet
- FireWire
- USB

### Download

This software is a freeware. To download, click the following link:

<http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=89>

### Release notes

Version	2.3.3
New features	<p>Main improvements in version 2.3.3:</p> <ul style="list-style-type: none"> <li>• Added latest device drivers (1.9.1.0).</li> <li>• Various bugfixes</li> </ul> <p>Main improvements in version 2.2.7:</p> <ul style="list-style-type: none"> <li>• Added support for FLIR Ax5 series.</li> </ul>

### System requirements

Operating system	<ul style="list-style-type: none"> <li>• Windows XP, 32-bit</li> <li>• Windows Vista, 32-bit/64-bit</li> <li>• Windows 7, 32-bit/64-bit</li> </ul>
------------------	--

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)

**P/N: DSW-10000**

© 2015, FLIR Systems, Inc.  
#DSW-10000; r. 24597; en-US

- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc

**P/N: DSW-10000**

© 2015, FLIR Systems, Inc.  
#DSW-10000; r. 24597; en-US

- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)





---

**P/N: DSW-10000**

© 2015, FLIR Systems, Inc.  
#DSW-10000; r. 24597; en-US

- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

**P/N: T198567**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: T198567  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

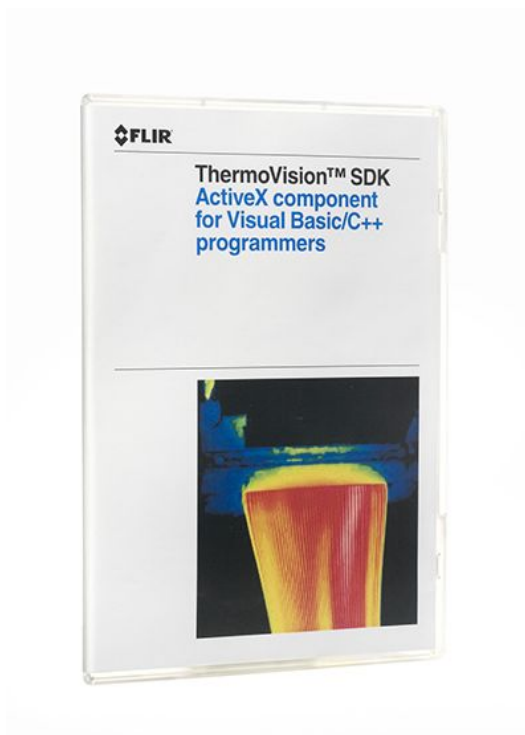
<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
ThermoVision™ System Developers Kit	
Key features:	
<ul style="list-style-type: none"> <li>• Supports communication and broadcasting via FireWire™, Ethernet, and USB interfaces.</li> <li>• Gives the user full control of the camera.</li> <li>• Allows the user to set alarm conditions and measurement functions in the camera</li> <li>• Allows the user to define I/O functionality (FLIR A series).</li> <li>• Based on ActiveX technology.</li> <li>• Supports acquisition of images through FireWire™, Ethernet, and USB interfaces.</li> <li>• Reads from and writes to file in FLIR Systems' proprietary file format and writes to files in FLIR Systems' open floating point format (*.fpf).</li> <li>• Converts 16-bit absolute pixels into temperature pixels and several intermediate types of pixels formats, for maximum user flexibility. Applies to all camera models with temperature measurement capabilities.</li> <li>• Allows 16-bit temperature linear outputs from FLIR A series cameras.</li> <li>• Includes method that allows using individual emissivity value correction on any single pixel or condensed measuring value – e.g. average, minimum etc.</li> <li>• Supports conditional recording to file through FireWire™, Ethernet, and USB interfaces.</li> </ul>	
Users with licenses for the previous version can download a free upgrade via the following link: <a href="http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=62">http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=62</a>	
Release notes	
Version	ThermoVision 2.6 SP2
New features	<ul style="list-style-type: none"> <li>• — News in SP2:</li> <li>• Support for FLIR GF3XX series</li> <li>• Support for windowing in FLIR A615 and FLIR SC6x5</li> <li>• Support for windowing in FLIR SC6x0</li> <li>• Various bug fixes</li> </ul>
Shipping information	
Packaging, type	Cardboard box
Packaging, weight	0.132 kg (0.3 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)

**P/N: T198567**

© 2015, FLIR Systems, Inc.  
#T198567; r. 24597; en-US

Shipping information	
EAN-13	7332558005293
UPC-12	845188005504
Country of origin	Sweden

**Compatible with the following products**

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens



---

**P/N: T198567**

© 2015, FLIR Systems, Inc.  
#T198567; r. 24597; en-US

- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

## P/N: T198566

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198566  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

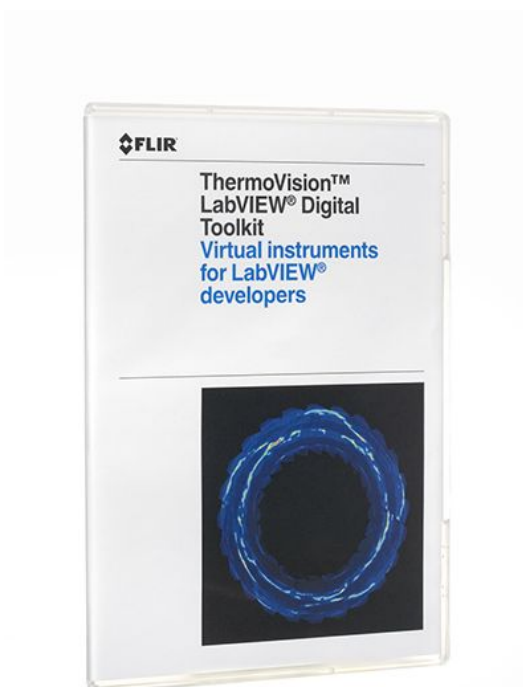
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
<p>The ThermoVision LabVIEW Toolkit is a set of VIs (virtual instruments) for cameras that support alarms, measurement functions, and I/O functionality.</p> <p>Through LabVIEW, you can use these VIs as sub-VIs to manage communications with a FLIR IR camera in digital mode.</p> <p>You can also generate true temperature images from images acquired through LabVIEW, and can use the LabVIEW IR Measurement and Display tools to analyze the temperatures of imaged objects.</p>	
Key features:	
<ul style="list-style-type: none"> <li>Set up communications between LabVIEW VI and a FLIR IR camera</li> <li>Capture and collect images via FireWire or Ethernet interfaces</li> <li>Adjust the camera configuration parameters and focus as you view a live image</li> <li>Control the camera calibration</li> <li>Send any other camera command to the camera</li> <li>Generate a true temperature image from a 16-bit image acquired using the camera's FireWire or Ethernet interfaces</li> <li>Close communications to the IR camera</li> </ul>	
<p>Users with licenses for the previous version can download a free upgrade via the following link:  <a href="http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=63">http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=63</a></p>	
Note: Only supports National Instrument 32-bit Labview	
Release notes	
Version	3.3
New features	<ul style="list-style-type: none"> <li>Windows 7 32- and 64-bit support</li> <li>Support for FLIR A615 and FLIR SC6X5 (including windowing)</li> <li>Support for windowing in FLIR SC660</li> <li>Various bug fixes</li> <li>New example VIs</li> </ul>
Shipping information	
Packaging, type	Cardboard box
Packaging, weight	0.133 kg (0.3 lb.)

**P/N: T198566**

© 2015, FLIR Systems, Inc.  
#T198566; r. 23306; en-US

Shipping information	
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005187
UPC-12	845188005399
Country of origin	Sweden

**Compatible with the following products**

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°



---

**P/N: T198566**

© 2015, FLIR Systems, Inc.  
#T198566; r. 23306; en-US

- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

**P/N: T199827**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: T199827  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

The Extended Warranty Package covers parts and labour for your IR camera, consumables not included. FLIR Systems warrants its products to be free from defects caused by faulty material or poor workmanship, for a period specified above. **NO PRODUCT IS WARRANTED TO BE MERCHANTABLE OR FIT FOR ANY PARTICULAR USE OR APPLICATION.** The warranty is void if the buyer damages the item due to misuse, abuse, modification, processing, or integration with other items. FLIR Systems' maximum liability under this warranty is limited to the obligation to replace or, at its sole option, to credit Buyer's account up to the purchase price.

## Download

Contact info can be found at:

<http://support.flir.com>

## Compatible with the following products

- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°



## P/N: T199831

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T199831  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

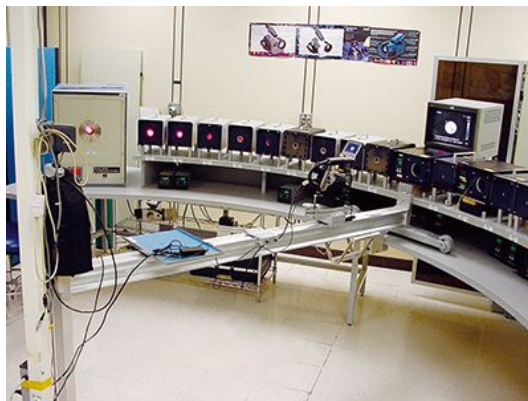
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

General Maintenance package offers a complete 14 points inspection and calibration service (for one lens combination). Shipping cost not included.

#### 14-point inspection program:

- Perform a complete operational check.
- Fusion calibration and laser alignment, when applicable.
- Verify all internal cable and PCB connections.
- Clean the viewfinder and check the optics.
- Upgrade the internal camera software to the latest revisions.
- Perform minor repairs.
- Verify and/or re-equalize as needed each temperature range for image uniformity.
- Verify standard lens calibration (optional: other or specially engineered lenses).
- Verify ambient temperature compensation as needed.
- Recalibration to ensure factory specifications are met.
- Calibrate temperature ranges up to +1500°C, when applicable.
- Perform a quality-approved acceptance test procedure.
- Provide a calibration label with the next due date.
- Provide a calibration certificate (optional: extended calibration certificate with measured values).

### Download

Contact info can be found at:

<http://support.flir.com>

### Compatible with the following products

- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-ADV-3021

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3021  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This interdisciplinary course bridges the gap between IR thermography, background science and application theory. Being an overview course it deals with three main application fields of thermography: electrical, industrial, and building. For every application the participant will learn about the specific theory, typical faults, and how to detect them with a thermography camera. The student will also learn about the basics of condition monitoring, and maintenance.

Examples and case studies from the real world illustrate the course content and are discussed with the participants. Participants will be trained in discovering and identifying typical faults by typical thermal patterns.

### Content

- Introduction
- Electrical Applications (current, voltage, resistance, electrical systems, Ohm's law, some important properties of materials, typical faults, surveying methodology and criteria, safety, voltage limits)
- Industrial Applications (bearings, pumps, gears, belts, misalignment and couplings, gaskets, seals, rings, glands, steam traps, furnaces)
- Building Applications (definition of the building envelope, steady state thermal transfer in a building envelope, transient thermal transfer in a building envelope, applications)

### Course information

Available languages	
English	
Target group	
<ul style="list-style-type: none"> <li>• Professional thermographers holding a Level 1 or a Level 2 certificate and</li> <li>• with interest in increasing their knowledge of different thermographic applications, and their limitations or</li> <li>• with a special interest in condition monitoring of machines</li> </ul>	
Typical student	
<ul style="list-style-type: none"> <li>• Knows how to operate the camera</li> <li>• Knows how to report</li> <li>• Works in the industry with e.g. maintenance and condition monitoring or is a consultant</li> </ul>	
Pre-requisites	
<ul style="list-style-type: none"> <li>• Valid Level 1 thermography certificate</li> <li>• IR related education and experience</li> </ul>	

**P/N: ITC-ADV-3021**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3021; r. 23306; en-US

Course details	
Duration	3 days (24 hours)
Structure	The course is divided into the three parts: Electrical Applications, Industrial Applications, and Building Applications. Theory sessions and case studies including interactive discussions alternate.
Exam	A final exam (30 multiple choice questions) will be written on the 3d day in the afternoon. In connection, the correct answers will be discussed by the instructor and the participants.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Attendance of 1 person</li> <li>• Might include more, such as lunch, depending on location and organizing entity</li> </ul>
Course organization	
ITC	The Advanced General Thermography Course is offered worldwide by ITC as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary.
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Advanced General Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)

**P/N: ITC-ADV-3021**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3021; r. 23306; en-US

- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC

---

**P/N: ITC-ADV-3021**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3021; r. 23306; en-US

- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-ADV-3029

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3029  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This interdisciplinary course bridges the gap between IR thermography, background science and application theory. Being an overview course it deals with three main application fields of thermography: electrical, industrial, and building. For every application the participant will learn about the specific theory, typical faults, and how to detect them with a thermography camera. The student will also learn about the basics of condition monitoring, and maintenance.

Examples and case studies from the real world illustrate the course content and are discussed with the participants. Participants will be trained in discovering and identifying typical faults by typical thermal patterns.

### Content

- Introduction
- Electrical Applications (current, voltage, resistance, electrical systems, Ohm's law, some important properties of materials, typical faults, surveying methodology and criteria, safety, voltage limits)
- Industrial Applications (bearings, pumps, gears, belts, misalignment and couplings, gaskets, seals, rings, glands, steam traps, furnaces)
- Building Applications (definition of the building envelope, steady state thermal transfer in a building envelope, transient thermal transfer in a building envelope, applications)

### Course information

Available languages	
English	
Target group	<ul style="list-style-type: none"> <li>• Professional thermographers holding a Level 1 or a Level 2 certificate and</li> <li>• with interest in increasing their knowledge of different thermographic applications, and their limitations or</li> <li>• with a special interest in condition monitoring of machines</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Knows how to operate the camera</li> <li>• Knows how to report</li> <li>• Works in the industry with e.g. maintenance and condition monitoring or is a consultant</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Valid Level 1 thermography certificate</li> <li>• IR related education and experience</li> </ul>

**P/N: ITC-ADV-3029**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3029; r. 23306; en-US

Course details	
Duration	3 days (24 hours)
Structure	The course is divided into the three parts: Electrical Applications, Industrial Applications, and Building Applications. Theory sessions and case studies including interactive discussions alternate.
Exam	A final exam (30 multiple choice questions) will be written on the 3d day in the afternoon. In connection, the correct answers will be discussed by the instructor and the participants.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Attendance of a group up to 10 persons</li> <li>• Might include more, such as lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	The Advanced General Thermography Course is offered worldwide by ITC as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary.
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Advanced General Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)

**P/N: ITC-ADV-3029**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3029; r. 23306; en-US

- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL



---

**P/N: ITC-ADV-3029**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3029; r. 23306; en-US

- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-ADV-3061

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3061  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
ITC Advanced Thermal applications course - attendance 1 pers. (3 days)	
Course information	
Available languages	DACH only
Course details	
Duration	3 days

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)

**P/N: ITC-ADV-3061**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3061; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°



---

**P/N: ITC-ADV-3061**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3061; r. 23306; en-US

- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-ADV-3069

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3069  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
ITC Advanced Thermal applications course - group up to 10 pers. (3 days)	
Course information	
Available languages	DACH only
Course details	
Duration	3 days

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)

**P/N: ITC-ADV-3069**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3069; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°



---

**P/N: ITC-ADV-3069**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3069; r. 23306; en-US

- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-ADV-3041

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3041  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The core part (2 days) consists of lectures on theoretical subjects, plus hands-on. Additional days can be booked (ITC-ADV-3006). After a general review of heat and heat transfer, the participants will learn about radiative heat transfer. Starting with the standard measurement situation they will learn about the importance of emissivity and reflected apparent temperature. The participants will compute and estimate emissivity and do compensation for the reflected apparent temperature. They will also learn about calibration and Hypercal. Depending on the needs of the audience and the time available, additional topics to be covered can be measurement through windows, measurable figures of merit, signal generation, the influence of integration time, ROIC, etc., triggering and synchronization, and NUC and Bad Pixel Replacement.

### Content

- Introduction
- Review on thermal transfer
- Radiative heat transfer
- What does a camera see? Definition of a standard measurement situation
- Computing the emissivity. Estimating emissivity and T<sub>Refl</sub> (with practice)
- From radiation to signal
- Measurable figure of merits (with practice)
- Triggering and synchronization (additional content, upon request, with practice)
- Measuring through a window (additional content, upon request, with practice)
- Calibration (additional content, upon request, with practice)
- Spectral filters (additional content, upon request, with practice)
- NUC and Bad Pixels replacement (additional content, upon request, with practice)
- Transient, Lock-in and Pulse, basics of NDT (additional content, upon request)

### Labs

- Practice according to content listed above

### Course information

Available languages	English, other languages upon request
Target group	<ul style="list-style-type: none"> <li>• Users of FLIR cooled thermal cameras and systems (cameras connected to a PC with e.g. the software programs Altair, AltairLI or Thesa).</li> <li>• Users of un-cooled thermal cameras with interest in advanced thermal measurement applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Laboratory and industry technical personnel</li> <li>• Researchers and scientists</li> <li>• University students</li> <li>• Persons working with NDT</li> </ul>



**P/N: ITC-ADV-3041**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3041; r. 23306; en-US

Course information	
Pre-requisites	<ul style="list-style-type: none"> <li>None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Basic knowledge about thermography and related parameters.</li> <li>Experience in measurement techniques and general software skills.</li> </ul>
Course details	
Duration	Standard: 2 days (in succession or separate) Upon request: Additional day including complementary topics (ITC-ADV-3006) Upon request: 1 day only (for experienced users with sufficient theoretical background)
Structure	Theory and hands-on
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training and/or reference material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as lunch or refreshments, depending on location and the organizing entity</li> </ul>
Note	This is normally an on-site course organized at a customer's facility. For open classes, please contact your closest ITC, ITC partner or FLIR sales representative.
Course organization	
ITC	The course "ITC Advanced Thermal Measurements (R&D)" is offered by ITC direct operations in EMEA. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The course "ITC Advanced Thermal Measurements (R&D)" is delivered by ITC qualified instructors having the relevant expertise in advanced thermal measurement, infrared applications, and the use of the camera equipment including software programs.

**Compatible with the following products**

- 42901-1001; FLIR A305sc
- 48001-1001; FLIR A325sc
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-ADV-3046

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3046  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The core part (2 days) consists of lectures on theoretical subjects, plus hands-on. Additional days can be booked (ITC-ADV-3006). After a general review of heat and heat transfer, the participants will learn about radiative heat transfer. Starting with the standard measurement situation they will learn about the importance of emissivity and reflected apparent temperature. The participants will compute and estimate emissivity and do compensation for the reflected apparent temperature. They will also learn about calibration and Hypercal. Depending on the needs of the audience and the time available, additional topics to be covered can be measurement through windows, measurable figures of merit, signal generation, the influence of integration time, ROIC, etc., triggering and synchronization, and NUC and Bad Pixel Replacement.

### Content

- Introduction
- Review on thermal transfer
- Radiative heat transfer
- What does a camera see? Definition of a standard measurement situation
- Computing the emissivity. Estimating emissivity and T<sub>Refl</sub> (with practice)
- From radiation to signal
- Measurable figure of merits (with practice)
- Triggering and synchronization (additional content, upon request, with practice)
- Measuring through a window (additional content, upon request, with practice)
- Calibration (additional content, upon request, with practice)
- Spectral filters (additional content, upon request, with practice)
- NUC and Bad Pixels replacement (additional content, upon request, with practice)
- Transient, Lock-in and Pulse, basics of NDT (additional content, upon request)

### Labs

- Practice according to content listed above

### Course information

Available languages	English, other languages upon request
Target group	<ul style="list-style-type: none"> <li>• Users of FLIR cooled thermal cameras and systems (cameras connected to a PC with e.g. the software programs Altair, AltairLI or Thesa).</li> <li>• Users of un-cooled thermal cameras with interest in advanced thermal measurement applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Laboratory and industry technical personnel</li> <li>• Researchers and scientists</li> <li>• University students</li> <li>• Persons working with NDT</li> </ul>

**P/N: ITC-ADV-3046**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3046; r. 23306; en-US

Course information	
Pre-requisites	<ul style="list-style-type: none"> <li>None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Basic knowledge about thermography and related parameters.</li> <li>Experience in measurement techniques and general software skills.</li> </ul>
Course details	
Duration	Standard: 2 days (in succession or separate) Upon request: Additional day including complementary topics (ITC-ADV-3006) Upon request: 1 day only (for experienced users with sufficient theoretical background)
Structure	Theory and hands-on
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training and/or reference material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 6 persons</li> <li>Might include more, such as lunch, refreshments, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Note	This is normally an on-site course organized at a customer's facility. The fee does not include costs for instructor's travelling or lodging. The customer is responsible for providing access to the equipment or objects that should be analyzed or measured, a suitable meeting room, and preferably also refreshments/lunch.
Course organization	
ITC	The course "ITC Advanced Thermal Measurements (R&D)" is offered by ITC direct operations in EMEA. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The course "ITC Advanced Thermal Measurements (R&D)" is delivered by ITC qualified instructors having the relevant expertise in advanced thermal measurement, infrared applications, and the use of the camera equipment including software programs.

**Compatible with the following products**

- 42901-1001; FLIR A305sc
- 48001-1001; FLIR A325sc
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-ADV-3006

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3006  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

An additional day can be booked when the customer wants to extend the training content, software exercises or guided field practice.

The third day can be added to the following courses:

ITC-ADV-3046

### Content

- Customized, build on the topics of the course prior to the additional day

### Labs

- Customized, depending on the equipment used and the application of interest

### Course information

Available languages	English, other languages upon demand
Target group	<ul style="list-style-type: none"> <li>• Participants of advanced courses that are delivered on-site</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Persons with special interests in the equipment and their application requesting in-depth training or additional guidance.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Please refer to the pre-requisites of the course prior to the additional day</li> </ul>

### Course details

Duration	1 day
Structure	Customized upon the customer's request
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>• ITC qualified instructor teaching the class</li> <li>• Training material in printed format</li> <li>• Diploma of attendance</li> <li>• Attendance of a group up to 6 persons</li> <li>• Might include more, such as lunch, refreshments, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>



**P/N: ITC-ADV-3006**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3006; r. 23306; en-US

Course organization	
ITC	Additional days are offered by the ITC or ITC partner arranging the respective standard class prior to the additional day. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Additional days are normally lectured by the same ITC trainers lecturing the standard class prior to the additional day.

**Compatible with the following products**

- 42901-1001; FLIR A305sc
- 48001-1001; FLIR A325sc
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-CON-1001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CON-1001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

ITC conference fee

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-CON-1001**

© 2015, FLIR Systems, Inc.

#ITC-CON-1001; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-CON-1001**

© 2015, FLIR Systems, Inc.

#ITC-CON-1001; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5



## P/N: ITC-EXP-1041

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1041  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This is a special day emphasizing on specifications of equipment towards the particularities of applications (for instance triggering or high speed). It addresses mainly the needs of high-end camera users in the scientific or industrial fields.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, French, other languages upon request
Target group	<ul style="list-style-type: none"> <li>Highly specialized users with advanced and scientific applications as well as persons interested in these applications and related infrared equipment.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Researchers</li> <li>Scientists</li> <li>University students</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Basic knowledge about thermography and related parameters.</li> <li>Experience in measurement techniques and general software skills.</li> </ul>
Course details	
Duration	Typically 1 day
Structure	Theory and hands-on, depending on topics
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material</li> <li>Diploma of attendance</li> </ul>
Note	This course is typically organized at the customer's site. Course fee does not include cost for instructor's travelling or lodging. The customer is responsible for providing a suitable classroom and preferably also refreshments/lunch.

**P/N: ITC-EXP-1041**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1041; r. 23306; en-US

Course organization	
ITC	ITC customized workshops are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	ITC customized workshops are lectured by ITC qualified specialists having the relevant expertise in the workshop's subject and the related fields of application.

**Compatible with the following products**

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC

**P/N: ITC-EXP-1041**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1041; r. 23306; en-US

- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

## P/N: ITC-EXP-1050

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1050  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Consultancy can be described as any action or arrangement that is not strictly a training course. Most likely, a thermal camera will be involved. It can be, but is not restricted to:

- Pre-sales equipment or software demonstration over the normal extend
- Equipment and software demonstration and explanation over the normal extend
- Advanced technical support
- Application support
- Comparative study involving a camera, either alone or in conjunction with other instruments
- General measurements in a difficult or unusual situation

### Content

- Customized

### Labs

- Customized

### Course information

Available languages	English, French, other languages upon request
Target group	<ul style="list-style-type: none"> <li>• Advanced users who wish to receive an in-depth guidance to complex problems related to infrared equipment, applications, and measurement questions.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Industry technical personnel</li> <li>• Researchers</li> <li>• Scientists</li> <li>• University students</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic knowledge about thermography and related parameters.</li> <li>• Experience in measurement techniques and general software skills.</li> </ul>

### Course details

Duration	Typically 1 day
Structure	Theory and hands-on, depending on topics

**P/N: ITC-EXP-1050**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1050; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>• Consultancy by qualified ITC specialist</li> <li>• Training and/or reference material</li> </ul>
Note	Consultancy is typically carried out at the customer's site. The fee does not include costs for instructor's travelling or lodging. The customer is responsible for providing access to the equipment or objects that should be analyzed or measured, a suitable meeting room, and preferably also refreshments/lunch.
Course organization	
ITC	ITC consultancy is offered by ITC in EMEA. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	ITC consultancy is delivered by ITC qualified specialists having the relevant expertise in infrared measurement and the related fields of application.

**Compatible with the following products**

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°

**P/N: ITC-EXP-1050**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1050; r. 23306; en-US

- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

## P/N: ITC-PRO-2004

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-PRO-2004  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The core part (2 days) consists of lectures on theoretical subjects, plus hands-on. After a general review of heat and heat transfer, the participants will learn about radiative heat transfer. Starting with the standard measurement situation they will learn about the importance of emissivity and reflected apparent temperature. The participants will compute and estimate emissivity and do compensation for the reflected apparent temperature. They will also learn about calibration and Hypercal. Depending on the needs of the audience and the time available, additional topics to be covered can be measurement through windows, measurable figures of merit, signal generation, the influence of integration time, ROIC, etc., triggering and synchronization, and NUC and Bad Pixel Replacement.

### Content

- Introduction
- Review on thermal transfer
- Radiative heat transfer
- What does a camera see? Definition of a standard measurement situation
- Computing the emissivity. Estimating emissivity and T<sub>Refl</sub> (with practice)
- From radiation to signal
- Measurable figure of merits (with practice)
- Triggering and synchronization (additional content, upon request, with practice)
- Measuring through a window (additional content, upon request, with practice)
- Calibration (additional content, upon request, with practice)
- Spectral filters (additional content, upon request, with practice)
- NUC and Bad Pixels replacement (additional content, upon request, with practice)
- Transient, Lock-in and Pulse, basics of NDT (additional content, upon request)

### Labs

- Practice according to content listed above

### Course information

Available languages	English, other languages upon request
Target group	<ul style="list-style-type: none"> <li>• Users of FLIR cooled thermal cameras and systems (cameras connected to a PC with e.g. the software programs Altair, AltairLI or Thesa).</li> <li>• Users of un-cooled thermal cameras with interest in advanced thermal measurement applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Laboratory and industry technical personnel</li> <li>• Researchers and scientists</li> <li>• University students</li> <li>• Persons working with NDT</li> </ul>

**P/N: ITC-PRO-2004**

© 2015, FLIR Systems, Inc.

#ITC-PRO-2004; r. 23306; en-US

Course information	
Pre-requisites	<ul style="list-style-type: none"> <li>None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Basic knowledge about thermography and related parameters.</li> <li>Experience in measurement techniques and general software skills.</li> </ul>
Course details	
Duration	<p>Standard: 2 days</p> <p>Upon request: Additional day including complementary topics</p> <p>Upon request: 1 day only (for experienced users with sufficient theoretical background)</p>
Structure	Theory and hands-on
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training and/or reference material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 4 persons</li> <li>Might include more, such as lunch, refreshments, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Note	<p>This is normally an on-site course organized at a customer's facility. The fee does not include costs for instructor's travelling or lodging. The customer is responsible for providing access to the equipment or objects that should be analyzed or measured, a suitable meeting room, and preferably also refreshments/lunch.</p>
Course organization	
ITC	<p>The course "ITC In-house R&amp;D training ATS products" is offered by ITC direct operations in EMEA. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.</p>
ITC Trainers and Licensed Trainers	<p>The course "ITC In-house R&amp;D training ATS products" is delivered by ITC qualified instructors having the relevant expertise in advanced thermal measurement, infrared applications, and the use of the camera equipment including software programs.</p>

**Compatible with the following products**

- 42901-1001; FLIR A305sc
- 48001-1001; FLIR A325sc
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°



## P/N: ITC-EXP-1021

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1021  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

An on-site training can be customized upon your needs. The participants will learn about IR thermography, inspections, measurements, applications, and reporting corresponding to the level needed for performing measurements and inspection in their working environment. The trainer will give useful advice on how to best implement IR thermography in your business.

This partnumber is reserved for adding additional students to an on site class.

### Content

- An on-site course can be any course, from a 1-day introduction to general thermography, over a customized application course to a complete certification course.

### Labs

- Portable classroom labs
- Field training on the site in agreement with the customer

### Course information

Available languages	English, Dutch, German, French, Italian, Spanish, Swedish, other languages upon request
Target group	<ul style="list-style-type: none"> <li>• Employees of a company or certain departments who would like to minimize travel costs and receive the training directly on their daily working site.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>

### Course details

Duration	Customized or according to the kind of course the in-house training is equivalent to.
Structure	Theory, camera handling, demos, practical labs and field training alternate.

**P/N: ITC-EXP-1021**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1021; r. 23306; en-US

Course details	
Exam	Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> </ul>
Course organization	
ITC	ITC In-house courses are offered worldwide by ITC and partners as listed. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	ITC In-house courses are lectured by ITC qualified instructors with experience in the relevant fields of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm

**P/N: ITC-EXP-1021**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1021; r. 23306; en-US

- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°

**P/N: ITC-EXP-1021**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1021; r. 23306; en-US

- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-1029

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1029  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
An on-site training can be customized upon your needs. The participants will learn about IR thermography, inspections, measurements, applications, and reporting corresponding to the level needed for performing measurements and inspection in their working environment. The trainer will give useful advice on how to best implement IR thermography in your business.	
Content	
<ul style="list-style-type: none"> <li>An on-site course can be any course, from a 1-day introduction to general thermography, over a customized application course to a complete certification course.</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Portable classroom labs</li> <li>Field training on the site in agreement with the customer</li> </ul>	
Course information	
Available languages	English, Dutch, German, French, Italian, Spanish, Swedish, other languages upon request
Target group	<ul style="list-style-type: none"> <li>Employees of a company or certain departments who would like to minimize travel costs and receive the training directly on their daily working site.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>
Course details	
Duration	Customized or according to the kind of course the in-house training is equivalent to.
Structure	Theory, camera handling, demos, practical labs and field training alternate.
Exam	Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.

**P/N: ITC-EXP-1029**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1029; r. 23306; en-US

Course details	
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> </ul>
Note	Course fee does not include cost for instructor's travelling or lodging. When organized at the customers' site, the customer is responsible for providing a suitable classroom and preferably also refreshments/lunch.
Course organization	
ITC	ITC In-house courses are offered worldwide by ITC and partners as listed. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	ITC In-house courses are lectured by ITC qualified instructors with experience in the relevant fields of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)

**P/N: ITC-EXP-1029**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1029; r. 23306; en-US

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL

**P/N: ITC-EXP-1029**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1029; r. 23306; en-US

- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display



## P/N: ITC-CER-5105

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5105  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 1 certified thermographer. The participant will learn about the basics of infrared, how to operate the camera under different conditions and for various purposes, how to do an appropriate judgement of the measurement situation in the field and how to identify potential error sources. After the class, the participant will be able to do IR inspections following written guidelines and to report the result of this inspection.

This partnumber is reserved for adding additional students to a level 1 on site class.

### Content

- Introduction to Thermography
- Camera Operation
- Basic physics of heat
- Basic physics of infrared
- Thermal pattern recognition and IR applications
- IR temperature measurement techniques
- Qualitative and quantitative thermography
- Inspection routines and reporting

### Student presentations

During the seminar, students will generate a small case study based on the lab exercises to be presented to the class.

### Labs

- Camera handling
- Level and Span
- Conduction pattern
- Forced convection
- Direct and indirect thermal measurement
- Thermal capacity
- Steady state and transient heat flow
- Evaporation and condensation
- Electrical application
- Emissivity and Reflected apparent temperature
- Spatial resolution
- Location and temperature measurement of a hot/cold spot
- Image transfer to the computer

**P/N: ITC-CER-5105**

© 2015, FLIR Systems, Inc.

#ITC-CER-5105; r. 23306; en-US

Course information	
Available languages	Chinese, Danish, Dutch, English, Finish, French, German, Greek, Hebrew, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (bra.), Romanian, Russian, Serbo-Croatian, Spanish, Swedish, Thai
Target group	<ul style="list-style-type: none"> <li>• Practical user</li> <li>• This course is designed for beginners in thermography with some experience in camera handling and limited IR knowledge, who want to take their first step to become a professional thermographer and want to qualify as a Level 1 certified thermographer.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>• having already some basic experience with IR thermography,</li> <li>• knowing the basic functions of the camera,</li> <li>• who wants to become a certified thermographer in order to gain a competitive advantage or who needs the certifications because of legal reasons or company internal regulations.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Be familiar with the basic operation of an infrared camera</li> <li>• Have the recommended experience within thermography according to relevant standards</li> </ul>

Course details	
Duration	35 – 40 hours
Structure	Theory and camera practice (hands-on) alternate every day, additional labs and software exercises at some days.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>• Attendance of 1 person</li> <li>• Might include more, such as lunch, depending on location and organizing entity</li> </ul>
Note	Only for non-EURO, non-SEK, non NOK, non- £, -non CHF countries

Course organization	
ITC	The Level 1 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)

**P/N: ITC-CER-5105**

© 2015, FLIR Systems, Inc.

#ITC-CER-5105; r. 23306; en-US

- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc

**P/N: ITC-CER-5105**

© 2015, FLIR Systems, Inc.

#ITC-CER-5105; r. 23306; en-US

- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-CER-5101

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5101  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 1 certified thermographer. The participant will learn about the basics of infrared, how to operate the camera under different conditions and for various purposes, how to do an appropriate judgement of the measurement situation in the field and how to identify potential error sources. After the class, the participant will be able to do IR inspections following written guidelines and to report the result of this inspection.

### Content

- Introduction to Thermography
- Camera Operation
- Basic physics of heat
- Basic physics of infrared
- Thermal pattern recognition and IR applications
- IR temperature measurement techniques
- Qualitative and quantitative thermography
- Inspection routines and reporting

### Student presentations

During the seminar, students will generate a small case study based on the lab exercises to be presented to the class.

### Labs

- Camera handling
- Level and Span
- Conduction pattern
- Forced convection
- Direct and indirect thermal measurement
- Thermal capacity
- Steady state and transient heat flow
- Evaporation and condensation
- Electrical application
- Emissivity and Reflected apparent temperature
- Spatial resolution
- Location and temperature measurement of a hot/cold spot
- Image transfer to the computer

**P/N: ITC-CER-5101**

© 2015, FLIR Systems, Inc.

#ITC-CER-5101; r. 23306; en-US

Course information	
Available languages	Chinese, Danish, Dutch, English, Finish, French, German, Greek, Hebrew, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (bra.), Romanian, Russian, Serbo-Croatian, Spanish, Swedish, Thai
Target group	<ul style="list-style-type: none"> <li>• Practical user</li> <li>• This course is designed for beginners in thermography with some experience in camera handling and limited IR knowledge, who want to take their first step to become a professional thermographer and want to qualify as a Level 1 certified thermographer.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>• having already some basic experience with IR thermography,</li> <li>• knowing the basic functions of the camera,</li> <li>• who wants to become a certified thermographer in order to gain a competitive advantage or who needs the certifications because of legal reasons or company internal regulations.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Be familiar with the basic operation of an infrared camera</li> <li>• Have the recommended experience within thermography according to relevant standards</li> </ul>

Course details	
Duration	35 – 40 hours
Structure	Theory and camera practice (hands-on) alternate every day, additional labs and software exercises at some days.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>• Attendance of 1 person</li> <li>• Might include more, such as lunch, depending on location and organizing entity</li> </ul>

Course organization	
ITC	The Level 1 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)

**P/N: ITC-CER-5101**

© 2015, FLIR Systems, Inc.

#ITC-CER-5101; r. 23306; en-US

- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)

**P/N: ITC-CER-5101**

© 2015, FLIR Systems, Inc.

#ITC-CER-5101; r. 23306; en-US

- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display



## P/N: ITC-CER-5109

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5109  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 1 certified thermographer. The participant will learn about the basics of infrared, how to operate the camera under different conditions and for various purposes, how to do an appropriate judgement of the measurement situation in the field and how to identify potential error sources. After the class, the participant will be able to do IR inspections following written guidelines and to report the result of this inspection.

### Content

- Introduction to Thermography
- Camera Operation
- Basic physics of heat
- Basic physics of infrared
- Thermal pattern recognition and IR applications
- IR temperature measurement techniques
- Qualitative and quantitative thermography
- Inspection routines and reporting

### Student presentations

During the seminar, students will generate a small case study based on the lab exercises to be presented to the class.

### Labs

- Camera handling
- Level and Span
- Conduction pattern
- Forced convection
- Direct and indirect thermal measurement
- Thermal capacity
- Steady state and transient heat flow
- Evaporation and condensation
- Electrical application
- Emissivity and Reflected apparent temperature
- Spatial resolution
- Location and temperature measurement of a hot/cold spot
- Image transfer to the computer

**P/N: ITC-CER-5109**

© 2015, FLIR Systems, Inc.

#ITC-CER-5109; r. 23306; en-US

Course information	
Available languages	Chinese, Danish, Dutch, English, Finish, French, German, Greek, Hebrew, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (bra.), Romanian, Russian, Serbo-Croatian, Spanish, Swedish, Thai
Target group	<ul style="list-style-type: none"> <li>Practical user</li> <li>This course is designed for beginners in thermography with some experience in camera handling and limited IR knowledge, who want to take their first step to become a professional thermographer and want to qualify as a Level 1 certified thermographer.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>having already some basic experience with IR thermography,</li> <li>knowing the basic functions of the camera,</li> <li>who wants to become a certified thermographer in order to gain a competitive advantage or who needs the certifications because of legal reasons or company internal regulations.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Be familiar with the basic operation of an infrared camera</li> <li>Have the recommended experience within thermography according to relevant standards</li> </ul>

Course details	
Duration	35 – 40 hours
Structure	Theory and camera practice (hands-on) alternate every day, additional labs and software exercises at some days.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>

Course organization	
ITC	The Level 1 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)

**P/N: ITC-CER-5109**

© 2015, FLIR Systems, Inc.

#ITC-CER-5109; r. 23306; en-US

- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310

**P/N: ITC-CER-5109**

© 2015, FLIR Systems, Inc.

#ITC-CER-5109; r. 23306; en-US

- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-CER-5205

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5205  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 2 certified thermographer. The participant will learn about topics in infrared thermography to increase the knowledge about infrared physics, heat science, infrared measurement equipment and its application. As a Level 2 thermographer the participant shall provide guidance to category 1 personnel in the areas of equipment selection, techniques, limitations, data analysis, corrective actions and reporting.

This partnumber is reserved for adding additional students to a level 2 on site class.

### Content

- Thermal science
- Heat transfer
- Temperature measurement
- Infrared science
- IR equipment and applications

### Student presentations

During the seminar, students shall present a prepared case study to the class. The maximum duration (excl. discussion) should be 7 minutes and the maximum number of 7 slides should not be exceeded.

### Labs (Note: Labs marked "(M)" are mandatory)

- Newton's law (class lab) (M)
- Advanced emissivity measurement (M)
- Variation of emissivity with the angle (M)
- Transient thermal transfer
- Indirect power measurement (M)
- IR-window transmission (M)
- Slit Response Function
- Hole Response Function (M)
- Parallel circuits

### Course information

Available languages	Dutch, English, German, French, Italian, Portuguese (bra.), Spanish, Swedish
Target group	<ul style="list-style-type: none"> <li>• Professional user</li> <li>• This course is designed for thermographers holding a Level 1 certificate, who want to increase their knowledge about IR thermography and who want to qualify as a Level 2 certified thermographer.</li> </ul>

**P/N: ITC-CER-5205**

© 2015, FLIR Systems, Inc.

#ITC-CER-5205; r. 23306; en-US

Course information	
Typical student	<ul style="list-style-type: none"> <li>A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>having several months of professional experience within thermography,</li> <li>versed in camera operation and reporting,</li> <li>holding a Level 1 certificate,</li> <li>who needs the Level 2 Certification for guidance and supervision of other thermographers or is interested in deeper understanding of IR thermography.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Valid Level 1 thermography certificate,</li> <li>Recommended experience within thermography according to relevant standards,</li> <li>Prepared case study to be presented at the Level 2 course and submitted towards qualification at course closing.</li> </ul>

Course details	
Duration	40 hours
Structure	Theory, camera practice (hands-on), and prepared case studies alternate every day.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>Attendance of 1 person</li> <li>Might include more, such as lunch, depending on location and organizing entity.</li> </ul>
Note	Only for non-EURO, non-SEK, non NOK, non- £, -non CHF countries

Course organization	
ITC	The Level 2 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in T560393 Courses offered by ITC partners. Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)

**P/N: ITC-CER-5205**

© 2015, FLIR Systems, Inc.

#ITC-CER-5205; r. 23306; en-US

- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°

**P/N: ITC-CER-5205**

© 2015, FLIR Systems, Inc.

#ITC-CER-5205; r. 23306; en-US

- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°



## P/N: ITC-CER-5201

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5201  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 2 certified thermographer. The participant will learn about topics in infrared thermography to increase the knowledge about infrared physics, heat science, infrared measurement equipment and its application. As a Level 2 thermographer the participant shall provide guidance to category 1 personnel in the areas of equipment selection, techniques, limitations, data analysis, corrective actions and reporting.

### Content

- Thermal science
- Heat transfer
- Temperature measurement
- Infrared science
- IR equipment and applications

### Student presentations

During the seminar, students shall present a prepared case study to the class. The maximum duration (excl. discussion) should be 7 minutes and the maximum number of 7 slides should not be exceeded.

### Labs (Note: Labs marked "(M)" are mandatory)

- Newton's law (class lab) (M)
- Advanced emissivity measurement (M)
- Variation of emissivity with the angle (M)
- Transient thermal transfer
- Indirect power measurement (M)
- IR-window transmission (M)
- Slit Response Function
- Hole Response Function (M)
- Parallel circuits

### Course information

#### Available languages

Dutch, English, German, French, Italian, Portuguese (bra.), Spanish, Swedish

#### Target group

- Professional user
- This course is designed for thermographers holding a Level 1 certificate, who want to increase their knowledge about IR thermography and who want to qualify as a Level 2 certified thermographer.

**P/N: ITC-CER-5201**

© 2015, FLIR Systems, Inc.

#ITC-CER-5201; r. 23306; en-US

Course information	
Typical student	<ul style="list-style-type: none"> <li>A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>having several months of professional experience within thermography,</li> <li>versed in camera operation and reporting,</li> <li>holding a Level 1 certificate,</li> <li>who needs the Level 2 Certification for guidance and supervision of other thermographers or is interested in deeper understanding of IR thermography.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Valid Level 1 thermography certificate,</li> <li>Recommended experience within thermography according to relevant standards,</li> <li>Prepared case study to be presented at the Level 2 course and submitted towards qualification at course closing.</li> </ul>
Course details	
Duration	40 hours
Structure	Theory, camera practice (hands-on), and prepared case studies alternate every day.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>Attendance of 1 person</li> <li>Might include more, such as lunch, depending on location and organizing entity.</li> </ul>
Course organization	
ITC	The Level 2 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in T560393 Courses offered by ITC partners. Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)

**P/N: ITC-CER-5201**

© 2015, FLIR Systems, Inc.

#ITC-CER-5201; r. 23306; en-US

- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°

**P/N: ITC-CER-5201**

© 2015, FLIR Systems, Inc.

#ITC-CER-5201; r. 23306; en-US

- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-CER-5209

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5209  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 2 certified thermographer. The participant will learn about topics in infrared thermography to increase the knowledge about infrared physics, heat science, infrared measurement equipment and its application. As a Level 2 thermographer the participant shall provide guidance to category 1 personnel in the areas of equipment selection, techniques, limitations, data analysis, corrective actions and reporting.

### Content

- Thermal science
- Heat transfer
- Temperature measurement
- Infrared science
- IR equipment and applications

### Student presentations

During the seminar, students shall present a prepared case study to the class. The maximum duration (excl. discussion) should be 7 minutes and the maximum number of 7 slides should not be exceeded.

### Labs (Note: Labs marked "(M)" are mandatory)

- Newton's law (class lab) (M)
- Advanced emissivity measurement (M)
- Variation of emissivity with the angle (M)
- Transient thermal transfer
- Indirect power measurement (M)
- IR-window transmission (M)
- Slit Response Function
- Hole Response Function (M)
- Parallel circuits

### Course information

#### Available languages

Dutch, English, German, French, Italian, Portuguese (bra.), Spanish, Swedish

#### Target group

- Professional user
- This course is designed for thermographers holding a Level 1 certificate, who want to increase their knowledge about IR thermography and who want to qualify as a Level 2 certified thermographer.

**P/N: ITC-CER-5209**

© 2015, FLIR Systems, Inc.

#ITC-CER-5209; r. 23306; en-US

Course information	
Typical student	<ul style="list-style-type: none"> <li>A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>having several months of professional experience within thermography,</li> <li>versed in camera operation and reporting,</li> <li>holding a Level 1 certificate,</li> <li>who needs the Level 2 Certification for guidance and supervision of other thermographers or is interested in deeper understanding of IR thermography.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Valid Level 1 thermography certificate,</li> <li>Recommended experience within thermography according to relevant standards,</li> <li>Prepared case study to be presented at the Level 2 course and submitted towards qualification at course closing.</li> </ul>
Course details	
Duration	40 hours
Structure	Theory, camera practice (hands-on), and prepared case studies alternate every day.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as lunch, instructor's travel expenses, etc. depending on location and organizing entity.</li> </ul>
Course organization	
ITC	The Level 2 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in T560393 Courses offered by ITC partners. Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)

**P/N: ITC-CER-5209**

© 2015, FLIR Systems, Inc.

#ITC-CER-5209; r. 23306; en-US

- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°

**P/N: ITC-CER-5209**

© 2015, FLIR Systems, Inc.

#ITC-CER-5209; r. 23306; en-US

- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°



## P/N: ITC-EXP-2036

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2036  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This 2-day course consists of lectures on theoretical subjects, plus hands-on.

After a general review of heat and heat transfer, the participants will learn about radiative heat transfer, and thermography equipment. Intensive practice is performed on software.

### Content

- Introduction
- Review on thermal transfer
- Radiative heat transfer (includes estimation of  $T_{\text{Refl}}$  and the emissivity) (with practice)
- Thermography equipment
- Software e.g. ThermoCAM Researcher, FLIR Quickplot or FLIR ResearchIR

### Labs

- Measurements and software exercises

### Course information

Available languages	English, other languages upon request
Target group	<ul style="list-style-type: none"> <li>• Users of FLIR uncooled thermal cameras working with software programs as ThermoCAM Researcher, FLIR Quickplot or FLIR ResearchIR</li> <li>• and with infrared applications in the industry or at research institutions.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Laboratory and industry technical personnel</li> <li>• Researchers and scientists</li> <li>• University students</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic knowledge about thermography and related parameters.</li> <li>• Experience in measurement techniques and general software skills.</li> </ul>

### Course details

Duration	Standard: 2 days (in succession or separate) Upon request: Additional day including complementary topics (ITC-EXP-3006) Upon request: 1 day only (for experienced users with sufficient theoretical background)
Structure	Theory and hands-on

**P/N: ITC-EXP-2036**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2036; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training and/or reference material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 6 persons</li> </ul>
Note	This is normally an on-site course organized at a customer's facility. The fee does not include costs for instructor's travelling or lodging. The customer is responsible for providing access to the equipment or objects that should be analyzed or measured, a suitable meeting room, and preferably also refreshments/lunch.
Course organization	
ITC	The course "ITC R&D basics for industry users" is offered by ITC direct operations in EMEA. Specific customer requests shall be forwarded to the closest ITC or ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The course "ITC R&D basics for industry users" is delivered by ITC qualified instructors having the relevant expertise in advanced thermal measurement, infrared applications, and the use of the camera equipment including software programs.

**Compatible with the following products**

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°

**P/N: ITC-EXP-2036**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2036; r. 23306; en-US

- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-EXP-2025

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2025  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This full 2-day course aims at explaining how to set-up a procedure for the temperature control of population. It is designed for persons who might have to implement a control (medical authorities, customs, civil security, etc). It starts with a brief, but necessary, reminder of thermal transfers and of the fundamentals of thermography. Key factors such as NETD, drift and drift compensation, baseline measurement and update, and the factors influencing the diagnosis are explained in details. Camera setup is included. ITC recommends organizing it simultaneously to a real-size test (airport, ferry-port, seaport, river port, stadium, etc.).

This partnumber is reserved for adding additional students to a fever screening on site class.

### Content

- Introduction
- Human physiological factors
- Basic thermography
- IR Camera basics
- Fever screening methodology

### Labs

- Emissivity and Trefl
- Camera settings
- Influence of the object size on the measurement

### Course information

Available languages	English
Target group	<ul style="list-style-type: none"> <li>• Persons with professional interest in human febrile temperature screening.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Airline operative personnel</li> <li>• Reception personnel</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic technical understanding</li> <li>• Should be organized with a real-size test in the field</li> </ul>

### Course details

Duration	2 days
Structure	Theory, camera handling, demos in the morning and practical labs alternate.

**P/N: ITC-EXP-2025**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2025; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>
Course organization	
ITC	The "ITC Short Course Fever Screening" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Fever Screening" is lectured by qualified ITC instructors with special experience in human febrile temperature screening.

**Compatible with the following products**

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL

---

**P/N: ITC-EXP-2025**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2025; r. 23306; en-US

- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-EXP-2021

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2021  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This full 2-day course aims at explaining how to set-up a procedure for the temperature control of population. It is designed for persons who might have to implement a control (medical authorities, customs, civil security, etc). It starts with a brief, but necessary, reminder of thermal transfers and of the fundamentals of thermography. Key factors such as NETD, drift and drift compensation, baseline measurement and update, and the factors influencing the diagnosis are explained in details. Camera setup is included. ITC recommends organizing it simultaneously to a real-size test (airport, ferry-port, seaport, river port, stadium, etc.).

### Content

- Introduction
- Human physiological factors
- Basic thermography
- IR Camera basics
- Fever screening methodology

### Labs

- Emissivity and Trefl
- Camera settings
- Influence of the object size on the measurement

### Course information

Available languages	English
Target group	<ul style="list-style-type: none"> <li>• Persons with professional interest in human febrile temperature screening.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Airline operative personnel</li> <li>• Reception personnel</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic technical understanding</li> <li>• Should be organized with a real-size test in the field</li> </ul>

### Course details

Duration	2 days
Structure	Theory, camera handling, demos in the morning and practical labs alternate.

**P/N: ITC-EXP-2021**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2021; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>
Course organization	
ITC	The "ITC Short Course Fever Screening" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Fever Screening" is lectured by qualified ITC instructors with special experience in human febrile temperature screening.

**Compatible with the following products**

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL



**P/N: ITC-EXP-2021**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2021; r. 23306; en-US

- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-EXP-2029

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2029  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This full 2-day course aims at explaining how to set-up a procedure for the temperature control of population. It is designed for persons who might have to implement a control (medical authorities, customs, civil security, etc). It starts with a brief, but necessary, reminder of thermal transfers and of the fundamentals of thermography. Key factors such as NETD, drift and drift compensation, baseline measurement and update, and the factors influencing the diagnosis are explained in details. Camera setup is included. ITC recommends organizing it simultaneously to a real-size test (airport, ferry-port, seaport, river port, stadium, etc.).

### Content

- Introduction
- Human physiological factors
- Basic thermography
- IR Camera basics
- Fever screening methodology

### Labs

- Emissivity and Trefl
- Camera settings
- Influence of the object size on the measurement

### Course information

Available languages	English
Target group	<ul style="list-style-type: none"> <li>• Persons with professional interest in human febrile temperature screening.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Airline operative personnel</li> <li>• Reception personnel</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic technical understanding</li> <li>• Should be organized with a real-size test in the field</li> </ul>

### Course details

Duration	2 days
Structure	Theory, camera handling, demos in the morning and practical labs alternate.

**P/N: ITC-EXP-2029**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2029; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	The "ITC Short Course Fever Screening" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Fever Screening" is lectured by qualified ITC instructors with special experience in human febrile temperature screening.

**Compatible with the following products**

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC

**P/N: ITC-EXP-2029**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2029; r. 23306; en-US

- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-EXP-1019

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1019  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This is a full one day course for beginners and everybody interested in IR thermography and its applications. The course covers the basics of IR theory and includes demos, camera hand-on and practical exercises using relevant key labs.

#### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- Introduction to electrical and building inspections
- IR Camera handling
- Data analysis and reports

#### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement

### Course information

Available languages	English, French, German, Swedish, Danish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in IR thermography and its applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> <li>• A person who starts to use IR cameras at work</li> <li>• Students and pupils with thermography related projects</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>

### Course details

Duration	1 day
Structure	Theory, camera handling and demos in the morning. Practical labs in the afternoon.

**P/N: ITC-EXP-1019**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1019; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	The "ITC Short Course Introduction to Thermography" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Introduction to Thermography" is lectured by qualified ITC instructors with long time experience in the various fields of thermography.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)

**P/N: ITC-EXP-1019**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1019; r. 23306; en-US

- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC



---

**P/N: ITC-EXP-1019**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1019; r. 23306; en-US

- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display



## P/N: ITC-EXP-1011

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1011  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This is a full one day course for beginners and everybody interested in IR thermography and its applications. The course covers the basics of IR theory and includes demos, camera hand-on and practical exercises using relevant key labs.

#### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- Introduction to electrical and building inspections
- IR Camera handling
- Data analysis and reports

#### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement

### Course information

Available languages	English, French, German, Swedish, Danish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in IR thermography and its applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> <li>• A person who starts to use IR cameras at work</li> <li>• Students and pupils with thermography related projects</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>

### Course details

Duration	1 day
Structure	Theory, camera handling and demos in the morning. Practical labs in the afternoon.

**P/N: ITC-EXP-1011**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1011; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by qualified ITC instructor</li> <li>• Training material in printed format</li> <li>• Diploma of attendance</li> <li>• Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>
Course organization	
ITC	The "ITC Short Course Introduction to Thermography" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Introduction to Thermography" is lectured by qualified ITC instructors with long time experience in the various fields of thermography.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)

**P/N: ITC-EXP-1011**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1011; r. 23306; en-US

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL

---

**P/N: ITC-EXP-1011**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1011; r. 23306; en-US

- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-3006

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-3006  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
An additional day can be booked when the customer wants to extend the training content, software exercises or guided field practice.	
The third day can be added to the following courses: ITC-EXP-2036	
Content	
<ul style="list-style-type: none"> <li>Customized, build on the topics of the course prior to the additional day</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized, depending on the equipment used and the application of interest</li> </ul>	
Course information	
Available languages	English, other languages upon demand
Target group	<ul style="list-style-type: none"> <li>Participants of short courses that are delivered on-site</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with special interests in the equipment and their application requesting in-depth training or additional guidance.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Please refer to the pre-requisites of the course prior to the additional day</li> </ul>
Course details	
Duration	1 day
Structure	Customized upon the customer's request
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>ITC qualified instructor teaching the class</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 6 persons</li> <li>Might include more, such as lunch, refreshments, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>



**P/N: ITC-EXP-3006**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3006; r. 23306; en-US

Course organization	
ITC	Additional days are offered by the ITC or ITC partner arranging the respective standard class prior to the additional day. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Additional days are normally lectured by the same ITC trainers lecturing the standard class prior to the additional day.

**Compatible with the following products**

- 42901-1001; FLIR A305sc
- 48001-1001; FLIR A325sc
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-SOW-0001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-SOW-0001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

These courses are for users of FLIR software like FLIR Reporter Professional or FLIR ResearchIR. Please observe that content and labs depend on the software used.

#### Content

- System requirements
- Configuration
- Analyzing functions
- Templates
- Reporting functions
- Data exchange

#### Labs

- System set up
- Data import
- Data analysis
- Creating templates
- Creating reports
- Exporting data
- Triggering

### Course information

Available languages	English, French, German, other languages upon request
Target group	<ul style="list-style-type: none"> <li>• Persons interested in, or users, of the specific software.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Consultants interested in reporting</li> <li>• Building inspectors with reporting needs</li> <li>• R&amp;D staff interested in advanced data analysis</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Laptop with installed software full version or 30 day demo (download on <a href="http://www.flir.com">www.flir.com</a>)</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic knowledge about thermography and related parameters.</li> </ul>

### Course details

Duration	Depends on software.
Structure	Short system introduction, then demos and practical exercises.

**P/N: ITC-SOW-0001**

© 2015, FLIR Systems, Inc.  
#ITC-SOW-0001; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>
Course organization	
ITC	Software courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Software courses are lectured by ITC qualified instructors experienced in usage of the software being subject of the class.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)



**P/N: ITC-SOW-0001**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0001; r. 23306; en-US

- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°

**P/N: ITC-SOW-0001**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0001; r. 23306; en-US

- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-SOW-0009

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-SOW-0009  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
These courses are for users of FLIR software like FLIR Reporter Professional or FLIR ResearchIR. Please observe that content and labs depend on the software used.	
Content	
<ul style="list-style-type: none"> <li>• System requirements</li> <li>• Configuration</li> <li>• Analyzing functions</li> <li>• Templates</li> <li>• Reporting functions</li> <li>• Data exchange</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>• System set up</li> <li>• Data import</li> <li>• Data analysis</li> <li>• Creating templates</li> <li>• Creating reports</li> <li>• Exporting data</li> <li>• Triggering</li> </ul>	
Course information	
Available languages	English, French, German, other languages upon request
Target group	<ul style="list-style-type: none"> <li>• Persons interested in, or users, of the specific software.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Consultants interested in reporting</li> <li>• Building inspectors with reporting needs</li> <li>• R&amp;D staff interested in advanced data analysis</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Laptop with installed software full version or 30 day demo (download on <a href="http://www.flir.com">www.flir.com</a>)</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic knowledge about thermography and related parameters.</li> </ul>
Course details	
Duration	Depends on software.
Structure	Short system introduction, then demos and practical exercises.

**P/N: ITC-SOW-0009**

© 2015, FLIR Systems, Inc.  
#ITC-SOW-0009; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	Software courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Software courses are lectured by ITC qualified instructors experienced in usage of the software being subject of the class.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm

**P/N: ITC-SOW-0009**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0009; r. 23306; en-US

- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°

**P/N: ITC-SOW-0009**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0009; r. 23306; en-US

- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-1001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	1 day
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-1001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1001; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm



**P/N: ITC-EXP-1001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1001; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-1001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1001; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-1009

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1009  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	1 day
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-1009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1009; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-1009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1009; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-1009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1009; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-2001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	2 days
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-2001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2001; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm



**P/N: ITC-EXP-2001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2001; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-2001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2001; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-2009

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2009  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	2 days
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-2009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2009; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-2009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2009; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-2009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2009; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-3001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-3001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	3 days
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-3001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3001; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm



**P/N: ITC-EXP-3001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3001; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-3001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3001; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-3009

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-3009  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	3 days
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-3009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3009; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-3009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3009; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-3009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3009; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-TFT-0100

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TFT-0100  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

ITC travel time for instructor

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TFT-0100**

© 2015, FLIR Systems, Inc.  
#ITC-TFT-0100; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC



**P/N: ITC-TFT-0100**

© 2015, FLIR Systems, Inc.  
#ITC-TFT-0100; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TOL-1003

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1003  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (Center and South Africa)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1003**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1003; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TOL-1003**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1003; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TOL-1001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (Europe, Balcans, Turkey, Cyprus)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1001**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1001; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TOL-1001**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1001; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TOL-1005

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1005  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (other)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)



**P/N: ITC-TOL-1005**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1005; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TOL-1005**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1005; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TOL-1002

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1002  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (Russia/GUS, Middle East, North Africa)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1002**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1002; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TOL-1002**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1002; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TOL-1004

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1004  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (various)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1004**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1004; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TOL-1004**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1004; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5



# Accessories for FLIR R&D series

---

## P/N: T199057

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T199057  
Commit: 25126  
Language: en-US  
Modified: 2015-04-29 10:01  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Spectral band	1.75–4.9 ± 0.25 µm
Focal length	200 mm (±5%)
f number	3 ± 10%
Transmission	>81%
Image field flatness	–0.2/+0.25 mm
Distortion	<2%
Focus range without vignetting	10 m to infinity
Operating temperature	0 to +50°C (+32 to +122°F)
Storage temperature	–20 to +70°C (–4 to +158°F)
Weight	4.2 kg (9.2 lb.), incl. lens support
Horizontal field of view	2.75°
Vertical field of view	2.20°
Vertical field of view	3.52°
MTF at 16.67 cc/mm, center	70%
MTF at 16.67 cc/mm, top/bottom	67.5% (S-T average)
MTF at 16.67 cc/mm, left/right	67.5% (S-T average)
MTF at 16.67 cc/mm, corner	63.5% (S-T average)

## P/N: T199084

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T199084  
Commit: 25129  
Language: en-US  
Modified: 2015-04-29 10:05  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Spectral band	1.75–4.9 ± 0.25 µm
Focal length	100 mm (±5%)
f number	3 ± 10%
Transmission	>70%
Image field flatness	±0.1 mm
Distortion	<2%
Focus range without vignetting	5 m to infinity
Operating temperature	0 to +50°C (+32 to +122°F)
Storage temperature	–20 to +70°C (–4 to +158°F)
Weight	1.7 kg (3.7 lb.)
Drifting temperature	N/A
Horizontal field of view	5.5°
Vertical field of view	4.4°
Vertical field of view	7.04°
MTF at 16.67 cc/mm, center	73%
MTF at 16.67 cc/mm, top/bottom	73% (S-T average)
MTF at 16.67 cc/mm, left/right	71.5 (S-T average)
MTF at 16.67 cc/mm, corner	67% (S-T average)

## P/N: T199082

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T199082  
Commit: 25128  
Language: en-US  
Modified: 2015-04-29 10:04  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Spectral band	1.75–4.9 ± 0.25 µm
Focal length	50 mm (±5%)
f number	3 ± 10%
Transmission	>81%
Image field flatness	–0.05/+0.2 mm
Distortion	<2%
Focus range without vignetting	1 m to infinity
Operating temperature	0 to +50°C (+32 to +122°F)
Storage temperature	–20 to +70°C (–4 to +158°F)
Weight	0.47 kg (1.05 lb.)
Horizontal field of view	10.97°
Vertical field of view	8.78°
Vertical field of view	14.02°
MTF at 16.67 cc/mm, center	70.3%
MTF at 16.67 cc/mm, top/bottom	63.3% (S-T average)
MTF at 16.67 cc/mm, left/right	60.3% (S-T average)
MTF at 16.67 cc/mm, corner	53.3% (S-T average)

## P/N: T199080

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T199080  
Commit: 25127  
Language: en-US  
Modified: 2015-04-29 10:02  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Spectral band	1.75–4.9 ± 0.25 µm
Focal length	27 mm (±5%)
F number	3 ± 10%
Transmission	>75%
Image field flatness	–0.2/+0.25 mm
Distortion	> –2%
Focus range without vignetting	0.5 m to infinity
Operating temperature	0 to +50°C (+32 to +122°F)
Storage temperature	–20 to +70°C (–4 to +158°F)
Weight	0.45 kg (1 lb.)
Horizontal field of view	20.16°
Vertical field of view	16.19°
Vertical field of view	25.65°
MTF at 16.67 cc/mm, center	67%
MTF at 16.67 cc/mm, top/bottom	67% (S-T average)
MTF at 16.67 cc/mm, left/right	66% (S-T average)
MTF at 16.67 cc/mm, corner	63% (S-T average)

# Accessories for FLIR T&M instruments

---

## P/N: VSS-20

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: VSS-20  
Commit: 22843  
Language: en-US  
Modified: 2015-01-29 12:34  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Part No.	VSS-20
<b>General information</b>	
Short description	20 m (66') plumbing spool (no camera, need VSC25 or VSC28)
Compatible main unit	VS70
Integrated handset	No
Wireless capabilities	N/A
Compatible wireless handset	With optional VST
Compatible detachable cameras	VSC25 or VSC28
Warranty	2 years
<b>Camera specifications</b>	
Articulation	No
Diameter	N/A
Resolution	N/A
Probe length	20 m (66')
Focal length	N/A
Field of view	N/A
Imaging sensor	N/A
Video format	N/A
Brightness control	N/A
Lamp type	N/A
<b>Power system</b>	
Power requirements	N/A
<b>Environmental data</b>	
Operating temperature	-10 to 50°C (14–122°F)
Operating humidity	80% maximum
Storage temperature	-40 to 80°C (-40 to 176°F)
<b>Physical data</b>	
Weight	See shipping information
Dimensions (H × W × L)	See shipping information
Material	PC-ABS, rubber hand grip, nylon strap
Color	Gray, black



## 20 m (66') plumbing spool (no camera, need VSC25 or VSC28)

### P/N: VSS-20

© 2015, FLIR Systems, Inc.

#VSS-20; r. 22843; en-US

Shipping information	
Packaging type	Brown box with shipping labels
Packaging contents	Brown box, hard case, spool
Packaging weight	4 kg
Packaging dimensions (H x W x L)	45 cm x 37 cm x 17 cm
Carton weight	9 kg
Carton dimensions (H x W x L)	46 cm x 32 cm x 40 cm
Carton quantity	2
EAN-13	0793950406144
UPC-12	793950406144
Country of origin	TW
Tariff code	9013909000
Technical support	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>





## 25 mm camera head for spool, spool (VCS-20 or VCS-30) needed for operation

### P/N: VSC25

#### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

#### Document identity

Publ. No.: VSC25  
Commit: 22843  
Language: en-US  
Modified: 2015-01-29 12:34  
Formatted: 2015-05-12

#### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

#### Website

<http://www.flir.com>

#### Customer support

<http://support.flir.com>

#### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Part No.	VSC25
<b>General information</b>	
Short description	25 mm camera head for spool, spool (VCS-20 or VCS-30) needed for operation
Compatible main unit	VS70
Integrated handset	No
Wireless capabilities	N/A
Compatible wireless handset	With optional VST
Compatible detachable cameras	N/A
Warranty	2 years
<b>Camera specifications</b>	
Articulation	No
Diameter	25 mm
Resolution	VGA (640 × 480 pixels)
Probe length	N/A
Focal length	65 mm to infinity
Field of view	72°
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED
<b>Power system</b>	
Power requirements	N/A
<b>Environmental data</b>	
Operating temperature	-10 to 50°C (14–122°F)
Operating humidity	80% maximum
Storage temperature	-40 to 80°C (-40 to 176°C)
<b>Physical data</b>	
Weight	See shipping information
Dimensions (H × W × L)	See shipping information
Material	Stainless steel, PC-ABS, rubber hand grip, nylon strap
Color	Gray, black
<b>Shipping information</b>	
Packaging type	White box with FLIR accessory printing
Packaging contents	White box with FLIR accessory graphic, camera



25 mm camera head for spool, spool (VCS-20 or VCS-30) needed for operation

**P/N: VSC25**

© 2015, FLIR Systems, Inc.

#VSC25; r. 22843; en-US

Shipping information	
Packaging weight	0.23 kg
Packaging dimensions (H × W × L)	23.5 cm × 7.5 cm × 7 cm
Carton weight	7 kg
Carton dimensions (H × W × L)	47 cm × 25.5 cm × 30 cm
Carton quantity	24
EAN-13	0793950400913
UPC-12	793950400913
Country of origin	TW
Tariff code	9013909000
Technical support	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>



## 28 mm camera head for spool, spool (VCS-20 or VCS-30) needed for operation

### P/N: VSC28

#### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

#### Document identity

Publ. No.: VSC28  
Commit: 22843  
Language: en-US  
Modified: 2015-01-29 12:34  
Formatted: 2015-05-12

#### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

#### Website

<http://www.flir.com>

#### Customer support

<http://support.flir.com>

#### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Part No.	VSC28
<b>General information</b>	
Short description	28 mm camera head for spool, spool (VCS-20 or VCS-30) needed for operation
Compatible main unit	VS70
Integrated handset	No
Wireless capabilities	N/A
Compatible wireless handset	With optional VST
Compatible detachable cameras	N/A
Warranty	2 years
<b>Camera specifications</b>	
Articulation	No
Diameter	28 mm
Resolution	VGA (640 × 480 pixels)
Probe length	N/A
Focal length	65 mm to infinity
Field of view	110°
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED
<b>Power system</b>	
Power requirements	N/A
<b>Environmental data</b>	
Operating temperature	-10 to 50°C (14–122°F)
Operating humidity	80% maximum
Storage temperature	-40 to 80°C (-40 to 176°F)
<b>Physical data</b>	
Weight	See shipping information
Dimensions (H × W × L)	See shipping information
Material	Stainless steel, PC-ABS, and rubber hand grip, nylon strap
Color	Gray, black
<b>Shipping information</b>	
Packaging type	White box with FLIR accessory printing
Packaging contents	White box with FLIR accessory graphic, camera



28 mm camera head for spool, spool (VCS-20 or VCS-30) needed for operation

**P/N: VSC28**

© 2015, FLIR Systems, Inc.

#VSC28; r. 22843; en-US

Shipping information	
Packaging weight	0.26 kg
Packaging dimensions (H × W × L)	23.5 cm × 7.5 cm × 7 cm
Carton weight	7 kg
Carton dimensions (H × W × L)	47 cm × 25.5 cm × 30 cm
Carton quantity	24
EAN-13	0793950400937
UPC-12	793950400937
Country of origin	TW
Tariff code	9013909000
Technical support	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>



## 3.9 mm (0.15") camera with 1 m (3.3') flexible probe—QVGA via short focus

### P/N: VSC39-1FM

#### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

#### Document identity

Publ. No.: VSC39-1FM  
Commit: 22843  
Language: en-US  
Modified: 2015-01-29 12:34  
Formatted: 2015-05-12

#### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

#### Website

<http://www.flir.com>

#### Customer support

<http://support.flir.com>

#### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Part No.	VSC39-1FM
<b>General information</b>	
Short description	3.9 mm (0.15") camera with 1 m (3.3') flexible probe—QVGA via short focus
Compatible main unit	VS70
Integrated handset	No
Wireless capabilities	N/A
Compatible wireless handset	With optional VST
Compatible detachable cameras	N/A
Warranty	2 years
<b>Camera specifications</b>	
Articulation	No
Diameter	3.9 mm
Resolution	QVGA ( 320 × 240 pixels)
Probe length	1 m
Focal length	20–60 mm
Field of view	53°
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED
<b>Power system</b>	
Power requirements	N/A
<b>Environmental data</b>	
Operating temperature	–10 to 50°C (14–122°F)
Operating humidity	80% maximum
Storage temperature	–40 to 80°C (–40 to 176°F)
<b>Physical data</b>	
Weight	See shipping information
Dimensions (H × W × L)	See shipping information
Material	PC-ABS, and rubber hand grip, nylon strap
Color	Gray, black
<b>Shipping information</b>	
Packaging type	White box with FLIR accessory printing
Packaging contents	White box with FLIR accessory graphic, camera, camera attachments: mirror, anti-snap tip, magnet



3.9 mm (0.15") camera with 1 m (3.3') flexible probe—QVGA via short focus

**P/N: VSC39-1FM**

© 2015, FLIR Systems, Inc.  
#VSC39-1FM; r. 22843; en-US

Shipping information	
Packaging weight	0.3 kg
Packaging dimensions (H × W × L)	22 cm × 19 cm × 5 cm
Carton weight	8.2 kg
Carton dimensions (H × W × L)	46 cm × 32 cm × 40 cm
Carton quantity	24
EAN-13	0793950400944
UPC-12	793950400944
Country of origin	TW
Tariff code	9013909000
Technical support	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>

## P/N: VSC65-12S

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: VSC65-12S  
Commit: 22843  
Language: en-US  
Modified: 2015-01-29 12:34  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Part No.	VSC65-12S
<b>General information</b>	
Short description	30 cm (12") stainless steel rigid probe
Compatible main unit	VS70
Integrated handset	No
Wireless capabilities	N/A
Compatible wireless handset	With optional VST
Compatible detachable cameras	N/A
Warranty	2 years
<b>Camera specifications</b>	
Articulation	No
Diameter	6.5 mm
Resolution	VGA (640 × 480 pixels)
Probe length	30 cm (12")
Focal length	20–60 mm
Field of view	56°
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED
<b>Power system</b>	
Power requirements	N/A
<b>Environmental data</b>	
Operating temperature	–10 to 50°C (14–122°F)
Operating humidity	80% maximum
Storage temperature	–40 to 80°C (–40 to 176°F)
<b>Physical data</b>	
Weight	See shipping information
Dimensions (H × W × L)	See shipping information
Material	Stainless Steel, PC-ABS, rubber hand grip, nylon strap
Color	Gray, black
<b>Shipping information</b>	
Packaging type	White box with FLIR accessory printing
Packaging contents	White box with FLIR accessory graphic, camera, camera attachments: rotating mirror



## 30 cm (12") stainless steel rigid probe

### P/N: VSC65-12S

© 2015, FLIR Systems, Inc.  
#VSC65-12S; r. 22843; en-US

Shipping information	
Packaging weight	1.7 kg
Packaging dimensions (H x W x L)	59 cm x 49 cm x 26 cm
Carton weight	8 kg
Carton dimensions (H x W x L)	46 cm x 32 cm x 40 cm
Carton quantity	4
EAN-13	0793950406052
UPC-12	793950406052
Country of origin	TW
Tariff code	9013909000
Technical support	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>



## P/N: VSS-30

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: VSS-30  
Commit: 22843  
Language: en-US  
Modified: 2015-01-29 12:34  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Part No.	VSS-30
<b>General information</b>	
Short description	30 m (98') plumbing spool (no camera, need VSC25 or VSC28)
Compatible main unit	VS70
Integrated handset	No
Wireless capabilities	N/A
Compatible wireless handset	With optional VST
Compatible detachable cameras	VSC25 or VSC28
Warranty	2 years
<b>Camera specifications</b>	
Articulation	No
Diameter	N/A
Resolution	N/A
Probe length	30 m (98')
Focal length	N/A
Field of view	N/A
Imaging sensor	N/A
Video format	N/A
Brightness control	N/A
Lamp type	N/A
<b>Power system</b>	
Power requirements	N/A
<b>Environmental data</b>	
Operating temperature	-10 to 50°C (14–122°F)
Operating humidity	80% maximum
Storage temperature	-40 to 80°C (-40 to 176°F)
<b>Physical data</b>	
Weight	See shipping information
Dimensions (H x W x L)	See shipping information
Material	PC-ABS, rubber hand grip, nylon strap
Color	Gray, black



## 30 m (98') plumbing spool (no camera, need VSC25 or VSC28)

### P/N: VSS-30

© 2015, FLIR Systems, Inc.

#VSS-30; r. 22843; en-US

Shipping information	
Packaging type	Brown box with shipping labels
Packaging contents	Brown box, hard case, spool
Packaging weight	4.5 kg
Packaging dimensions (H x W x L)	45 cm x 37 cm x 17 cm
Carton weight	10 kg
Carton dimensions (H x W x L)	46 cm x 32 cm x 40 cm
Carton quantity	2
EAN-13	0793950406151
UPC-12	793950406151
Country of origin	TW
Tariff code	9013909000
Technical support	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>



## 4.1 mm (0.16") camera with 2 m (6.6') semi-rigid probe—QVGA via short focus

### P/N: VSC41-2RM

#### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

#### Document identity

Publ. No.: VSC41-2RM  
Commit: 22843  
Language: en-US  
Modified: 2015-01-29 12:34  
Formatted: 2015-05-12

#### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

#### Website

<http://www.flir.com>

#### Customer support

<http://support.flir.com>

#### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Part No.	VSC41-2RM
<b>General information</b>	
Short description	4.1 mm (0.16") camera with 2 m (6.6') semi-rigid probe—QVGA via short focus
Compatible main unit	VS70
Integrated handset	No
Wireless capabilities	N/A
Compatible wireless handset	With optional VST
Compatible detachable cameras	N/A
Warranty	2 years
<b>Camera specifications</b>	
Articulation	No
Diameter	4.1 mm
Resolution	QVGA (320 × 240 pixels)
Probe length	2 m
Focal length	20–60 mm
Field of view	53°
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED
<b>Power system</b>	
Power requirements	N/A
<b>Environmental data</b>	
Operating temperature	–10 to 50°C (14–122°F)
Operating humidity	80% maximum
Storage temperature	–40 to 80°C (–40 to 176°F)
<b>Physical data</b>	
Weight	See shipping information
Dimensions (H × W × L)	See shipping information
Material	PC-ABS, rubber hand grip, nylon strap
Color	Gray, black
<b>Shipping information</b>	
Packaging type	White box with FLIR accessory printing
Packaging contents	White box with FLIR accessory graphic, camera, camera attachments: mirror, anti-snag tip, magnet



**P/N: VSC41-2RM**

© 2015, FLIR Systems, Inc.  
#VSC41-2RM; r. 22843; en-US

Shipping information	
Packaging weight	0.3 kg
Packaging dimensions (H × W × L)	22 cm × 19 cm × 5 cm
Carton weight	8.2 kg
Carton dimensions (H × W × L)	46 cm × 32 cm × 40 cm
Carton quantity	24
EAN-13	0793950400968
UPC-12	793950400968
Country of origin	TW
Tariff code	9013909000
Technical support	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>

# 43 cm (17") stainless steel rigid probe with rotating mirror

## P/N: VSC65-17S

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: VSC65-17S  
Commit: 22843  
Language: en-US  
Modified: 2015-01-29 12:34  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Part No.	VSC65-17S
<b>General information</b>	
Short description	43 cm (17") stainless steel rigid probe with rotating mirror
Compatible main unit	VS70
Integrated handset	No
Wireless capabilities	N/A
Compatible wireless handset	With optional VST
Compatible detachable cameras	N/A
Warranty	2 years
<b>Camera specifications</b>	
Articulation	No
Diameter	6.5 mm
Resolution	VGA (640 × 480 pixels)
Probe length	43 cm (17")
Focal length	20–60 mm
Field of view	56°
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED
<b>Power system</b>	
Power requirements	N/A
<b>Environmental data</b>	
Operating temperature	–10 to 50°C (14–122°F)
Operating humidity	80% maximum
Storage temperature	–40 to 80°C (–40 to 176°F)
<b>Physical data</b>	
Weight	See shipping information
Dimensions (H × W × L)	See shipping information
Material	Stainless Steel, PC-ABS, rubber hand grip, nylon strap
Color	Gray, black



## 43 cm (17") stainless steel rigid probe with rotating mirror

### P/N: VSC65-17S

© 2015, FLIR Systems, Inc.  
#VSC65-17S; r. 22843; en-US

Shipping information	
Packaging type	White box with FLIR accessory printing
Packaging contents	White box with FLIR accessory graphic, camera, camera attachments: rotating mirror
Packaging weight	1.75 kg
Packaging dimensions (H x W x L)	59 cm x 49 cm x 26 cm
Carton weight	8.2 kg
Carton dimensions (H x W x L)	46 cm x 32 cm x 40 cm
Carton quantity	4
EAN-13	0793950406069
UPC-12	793950406069
Country of origin	TW
Tariff code	9013909000
Technical support	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>



## 5.8 mm (0.23") camera with 1 m (3.3') semi-rigid probe—VGA via long focus

### P/N: VSC58-1R

#### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

#### Document identity

Publ. No.: VSC58-1R  
Commit: 22843  
Language: en-US  
Modified: 2015-01-29 12:34  
Formatted: 2015-05-12

#### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

#### Website

<http://www.flir.com>

#### Customer support

<http://support.flir.com>

#### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Part No.	VSC58-1R
<b>General information</b>	
Short description	5.8 mm (0.23") camera with 1 m (3.3') semi-rigid probe—VGA via long focus
Compatible main unit	VS70
Integrated handset	No
Wireless capabilities	N/A
Compatible wireless handset	With optional VST
Compatible detachable cameras	N/A
Warranty	2 years
<b>Camera specifications</b>	
Articulation	No
Diameter	5.8 mm
Resolution	VGA (640 × 480 pixels)
Probe length	1 m
Focal length	65 mm to infinity
Field of view	56°
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED
<b>Power system</b>	
Power requirements	N/A
<b>Environmental data</b>	
Operating temperature	−10 to 50°C (14–122°F)
Operating humidity	80% maximum
Storage temperature	−40 to 80°C (−40 to 176°F)
<b>Physical data</b>	
Weight	See shipping information
Dimensions (H × W × L)	See shipping information
Material	PC-ABS, rubber hand grip, nylon strap
Color	Gray, black
<b>Shipping information</b>	
Packaging type	White box with FLIR accessory printing
Packaging contents	White box with FLIR accessory graphic, camera, camera attachments: mirror, anti-snag tip, magnet



5.8 mm (0.23") camera with 1 m (3.3') semi-rigid probe—VGA via long focus

**P/N: VSC58-1R**

© 2015, FLIR Systems, Inc.  
#VSC58-1R; r. 22843; en-US

Shipping information	
Packaging weight	0.32 kg
Packaging dimensions (H × W × L)	22 cm × 19 × 5 cm
Carton weight	8.7 kg
Carton dimensions (H × W × L)	46 cm × 32 cm × 40 cm
Carton quantity	24
EAN-13	0793950400982
UPC-12	793950400982
Country of origin	TW
Tariff code	9013909000
Technical support	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>





## 5.8 mm (0.23") camera with 1 m (3.3') semi-rigid probe—VGA via macro short focus

### P/N: VSC58-1RM

#### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

#### Document identity

Publ. No.: VSC58-1RM  
Commit: 22843  
Language: en-US  
Modified: 2015-01-29 12:34  
Formatted: 2015-05-12

#### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

#### Website

<http://www.flir.com>

#### Customer support

<http://support.flir.com>

#### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Part No.	VSC58-1RM
<b>General information</b>	
Short description	5.8 mm (0.23") camera with 1 m (3.3') semi-rigid probe—VGA via macro short focus
Compatible main unit	VS70
Integrated handset	No
Wireless capabilities	N/A
Compatible wireless handset	With optional VST
Compatible detachable cameras	N/A
Warranty	2 years
<b>Camera specifications</b>	
Articulation	No
Diameter	5.8 mm
Resolution	VGA (640 × 480 pixels)
Probe length	1 m
Focal length	20–60 mm
Field of view	56°
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED
<b>Power system</b>	
Power requirements	N/A
<b>Environmental data</b>	
Operating temperature	–10 to 50°C (14–122°F)
Operating humidity	80% maximum
Storage temperature	–40 to 80°C (–40 to 176°F)
<b>Physical data</b>	
Weight	See shipping information
Dimensions (H × W × L)	See shipping information
Material	PC-ABS, rubber hand grip, nylon strap
Color	Gray, black
<b>Shipping information</b>	
Packaging type	White box with FLIR accessory printing
Packaging contents	White box with FLIR accessory graphic, camera, camera attachments: mirror, anti-snag tip, magnet



**P/N: VSC58-1RM**

© 2015, FLIR Systems, Inc.  
#VSC58-1RM; r. 22843; en-US

Shipping information	
Packaging weight	0.32 kg
Packaging dimensions (H × W × L)	22 cm × 19 cm × 5 cm
Carton weight	8.7 kg
Carton dimensions (H × W × L)	46 cm × 32 cm × 40 cm
Carton quantity	24
EAN-13	0793950400999
UPC-12	793950400999
Country of origin	TW
Tariff code	9013909000
Technical support	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>



## 5.8 mm (0.23") camera with 2 m (78") semi-rigid probe—VGA via long focus

### P/N: VSC58-2R

#### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

#### Document identity

Publ. No.: VSC58-2R  
Commit: 22843  
Language: en-US  
Modified: 2015-01-29 12:34  
Formatted: 2015-05-12

#### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

#### Website

<http://www.flir.com>

#### Customer support

<http://support.flir.com>

#### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Part No.	VSC58-2R
<b>General information</b>	
Short description	5.8 mm (0.23") camera with 2 m (78") semi-rigid probe—VGA via long focus
Compatible main unit	VS70
Integrated handset	No
Wireless capabilities	N/A
Compatible wireless handset	With optional VST
Compatible detachable cameras	N/A
Warranty	2 years
<b>Camera specifications</b>	
Articulation	No
Diameter	5.8 mm
Resolution	VGA (640 × 480 pixels)
Probe length	1 m
Focal length	65 mm to infinity
Field of view	56°
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED
<b>Power system</b>	
Power requirements	N/A
<b>Environmental data</b>	
Operating temperature	−10 to 50°C (14–122°F)
Operating humidity	80% maximum
Storage temperature	−40 to 80°C (−40 to 176°F)
<b>Physical data</b>	
Weight	See shipping information
Dimensions (H × W × L)	See shipping information
Material	PC-ABS, rubber hand grip, nylon strap
Color	Gray, black
<b>Shipping information</b>	
Packaging type	White box with FLIR accessory printing
Packaging contents	White box with FLIR accessory graphic, camera, camera attachments: mirror, anti-snag tip, magnet



5.8 mm (0.23") camera with 2 m (78") semi-rigid probe—VGA via long focus

**P/N: VSC58-2R**

© 2015, FLIR Systems, Inc.  
#VSC58-2R; r. 22843; en-US

Shipping information	
Packaging weight	0.42 kg
Packaging dimensions (H × W × L)	22 cm × 19 cm × 5 cm
Carton weight	11.5 kg
Carton dimensions (H × W × L)	46 cm × 32 cm × 40 cm
Carton quantity	24
EAN-13	0793950406014
UPC-12	793950406014
Country of origin	TW
Tariff code	9013909000
Technical support	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>



## 5.8 mm (0.23") camera with 2 m (78") semi-rigid probe—VGA via macro short focus

### P/N: VSC58-2RM

#### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

#### Document identity

Publ. No.: VSC58-2RM  
Commit: 22843  
Language: en-US  
Modified: 2015-01-29 12:34  
Formatted: 2015-05-12

#### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

#### Website

<http://www.flir.com>

#### Customer support

<http://support.flir.com>

#### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Part No.	VSC58-2RM
<b>General information</b>	
Short description	5.8 mm (0.23") camera with 2 m (78") semi-rigid probe—VGA via macro short focus
Compatible main unit	VS70
Integrated handset	No
Wireless capabilities	N/A
Compatible wireless handset	With optional VST
Compatible detachable cameras	N/A
Warranty	2 years
<b>Camera specifications</b>	
Articulation	No
Diameter	5.8 mm
Resolution	VGA (640 × 480 pixels)
Probe length	1 m
Focal length	20–60 mm
Field of view	56°
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED
<b>Power system</b>	
Power requirements	N/A
<b>Environmental data</b>	
Operating temperature	–10 to 50°C (14–122°F)
Operating humidity	80% maximum
Storage temperature	–40 to 80°C (–40 to 176°F)
<b>Physical data</b>	
Weight	See shipping information
Dimensions (H × W × L)	See shipping information
Material	PC-ABS, rubber hand grip, nylon strap
Color	Gray, black
<b>Shipping information</b>	
Packaging type	White box with FLIR accessory printing
Packaging contents	White box with FLIR accessory graphic, camera, camera attachments: mirror, anti-snag tip, magnet



**P/N: VSC58-2RM**

© 2015, FLIR Systems, Inc.  
#VSC58-2RM; r. 22843; en-US

Shipping information	
Packaging weight	0.42 kg
Packaging dimensions (H × W × L)	22 cm × 19 cm × 5 cm
Carton weight	11.5 kg
Carton dimensions (H × W × L)	46 cm × 32 cm × 40 cm
Carton quantity	24
EAN-13	0793950406021
UPC-12	793950406021
Country of origin	TW
Tariff code	9013909000
Technical support	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>

## P/N: VSC58-20M

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: VSC58-20M  
Commit: 22843  
Language: en-US  
Modified: 2015-01-29 12:34  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Part No.	VSC58-20M
<b>General information</b>	
Short description	5.8 mm cam with 20 m fiberglass-reinforced probe—QVGA via macro short focus
Compatible main unit	VS70
Integrated handset	No
Wireless capabilities	N/A
Compatible wireless handset	With optional VST
Compatible detachable cameras	N/A
Warranty	2 years
<b>Camera specifications</b>	
Articulation	No
Diameter	5.8 mm
Front camera focal length	20–60 mm
Front camera field of view	56°
Front camera resolution	QVGA (320 × 240) pixels
Probe length	20 m
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED
<b>Power system</b>	
Power requirements	N/A
<b>Environmental data</b>	
Operating temperature	–10 to 50°C (14–122°F)
Operating humidity	80% maximum
Storage temperature	–40 to 80°C (–40 to 176°F)
<b>Physical data</b>	
Weight	See shipping information
Dimensions (H × W × L)	See shipping information

**P/N: VSC58-20M**

© 2015, FLIR Systems, Inc.  
#VSC58-20M; r. 22843; en-US

Physical data	
Material	PC-ABS, rubber hand grip, nylon strap
Color	Gray, black
Shipping information	
Packaging type	Brown shipping box
Packaging contents	Brown shipping box, hardcase, camera, camera attachments: mirror, anti-snag tip, magnet
Packaging weight	4 kg
Packaging dimensions (H × W × L)	45 cm × 37 cm × 17 cm
Carton weight	9 kg
Carton dimensions (H × W × L)	39 cm × 36 cm × 47 cm
Carton quantity	2
EAN-13	0793950406007
UPC-12	793950406007
Country of origin	TW
Tariff code	9013909000
Technical support	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>



## P/N: VSC58-30M

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: VSC58-30M  
Commit: 22843  
Language: en-US  
Modified: 2015-01-29 12:34  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Part No.	VSC58-30M
<b>General information</b>	
Short description	5.8 mm camera with 30 m fiberglass-reinforced probe—QVGA via SF
Compatible main unit	VS70
Integrated handset	No
Wireless capabilities	N/A
Compatible wireless handset	With optional VST
Compatible detachable cameras	N/A
Warranty	2 years
<b>Camera specifications</b>	
Articulation	No
Diameter	5.8 mm
Front camera focal length	20–60 mm
Front camera field of view	56°
Front camera resolution	QVGA (320 × 240) pixels
Probe length	30 m
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED
<b>Power system</b>	
Power requirements	N/A
<b>Environmental data</b>	
Operating temperature	–10 to 50°C (14–122°F)
Operating humidity	80% maximum
Storage temperature	–40 to 80°C (–40 to 176°F)
<b>Physical data</b>	
Weight	See shipping information
Dimensions (H × W × L)	See shipping information



## 5.8 mm camera with 30 m fiberglass-reinforced probe—QVGA via SF

### P/N: VSC58-30M

© 2015, FLIR Systems, Inc.  
#VSC58-30M; r. 22843; en-US

Physical data	
Material	PC-ABS, rubber hand grip, nylon strap
Color	Gray, black
Shipping information	
Packaging type	Brown shipping box
Packaging contents	Brown shipping box, hardcase, camera, camera attachments: mirror, anti-snag tip, magnet
Packaging weight	4.5 kg
Packaging dimensions (H × W × L)	45 cm × 37 cm × 17 cm
Carton weight	10 kg
Carton dimensions (H × W × L)	39 cm × 36 cm × 47 cm
Carton quantity	2
EAN-13	0793950406038
UPC-12	793950406038
Country of origin	TW
Tariff code	9013909000
Technical support	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>



## 8 mm (0.31") camera with 1 m (3.3') semi-rigid probe—VGA via long focus

### P/N: VSC80-1R

#### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

#### Document identity

Publ. No.: VSC80-1R  
Commit: 22843  
Language: en-US  
Modified: 2015-01-29 12:34  
Formatted: 2015-05-12

#### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

#### Website

<http://www.flir.com>

#### Customer support

<http://support.flir.com>

#### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Part No.	VSC80-1R
<b>General information</b>	
Short description	8 mm (0.31") camera with 1 m (3.3') semi-rigid probe—VGA via long focus
Compatible main unit	VS70
Integrated handset	No
Wireless capabilities	N/A
Compatible wireless handset	With optional VST
Compatible detachable cameras	N/A
Warranty	2 years
<b>Camera specifications</b>	
Articulation	No
Diameter	8.0 mm
Resolution	VGA (640 × 480 pixels)
Probe length	1 m
Focal length	65 mm to infinity
Field of view	56°
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED
<b>Power system</b>	
Power requirements	N/A
<b>Environmental data</b>	
Operating temperature	−10 to 50°C (14–122°F)
Operating humidity	80% maximum
Storage temperature	−40 to 80°C (−40 to 176°F)
<b>Physical data</b>	
Weight	See shipping information
Dimensions (H × W × L)	See shipping information
Material	PC-ABS, rubber hand grip, nylon strap
Color	Gray, black
<b>Shipping information</b>	
Packaging type	White box with FLIR accessory printing
Packaging contents	White box with FLIR accessory graphic, camera, camera attachments: mirror, anti-snag tip, magnet



## 8 mm (0.31") camera with 1 m (3.3') semi-rigid probe—VGA via long focus

### P/N: VSC80-1R

© 2015, FLIR Systems, Inc.  
#VSC80-1R; r. 22843; en-US

Shipping information	
Packaging weight	0.35 kg
Packaging dimensions (H × W × L)	22 cm × 19 cm × 5 cm
Carton weight	9.5 kg
Carton dimensions (H × W × L)	46 cm × 32 cm × 40 cm
Carton quantity	24
EAN-13	0793950406083
UPC-12	793950406083
Country of origin	TW
Tariff code	9013909000
Technical support	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>



## 8 mm (0.31") camera with 2 m (6.6') semi-rigid probe—VGA via long focus

### P/N: VSC80-2R

#### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

#### Document identity

Publ. No.: VSC80-2R  
Commit: 22843  
Language: en-US  
Modified: 2015-01-29 12:34  
Formatted: 2015-05-12

#### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

#### Website

<http://www.flir.com>

#### Customer support

<http://support.flir.com>

#### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Part No.	VSC80-2R
<b>General information</b>	
Short description	8 mm (0.31") camera with 2 m (6.6') semi-rigid probe—VGA via long focus
Compatible main unit	VS70
Integrated handset	No
Wireless capabilities	N/A
Compatible wireless handset	With optional VST
Compatible detachable cameras	N/A
Warranty	2 years
<b>Camera specifications</b>	
Articulation	No
Diameter	8.0 mm
Resolution	VGA (640 × 480 pixels)
Probe length	2 m (6.6')
Focal length	65 mm to infinity
Field of view	56°
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED
<b>Power system</b>	
Power requirements	N/A
<b>Environmental data</b>	
Operating temperature	−10 to 50°C (14–122°F)
Operating humidity	80% maximum
Storage temperature	−40 to 80°C (−40 to 176°F)
<b>Physical data</b>	
Weight	See shipping information
Dimensions (H × W × L)	See shipping information
Material	PC-ABS, rubber hand grip, nylon strap
Color	Gray, black
<b>Shipping information</b>	
Packaging type	White box with FLIR accessory printing
Packaging contents	White box with FLIR accessory graphic, camera, camera attachments: mirror, anti-snag tip, magnet



8 mm (0.31") camera with 2 m (6.6') semi-rigid probe—VGA via long focus

**P/N: VSC80-2R**

© 2015, FLIR Systems, Inc.  
#VSC80-2R; r. 22843; en-US

Shipping information	
Packaging weight	0.5 kg
Packaging dimensions (H × W × L)	22 cm × 19 cm × 5 cm
Carton weight	13.5 kg
Carton dimensions (H × W × L)	46 cm × 32 cm × 40 cm
Carton quantity	24
EAN-13	0793950406090
UPC-12	793950406090
Country of origin	TW
Tariff code	9013909000
Technical support	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>

## P/N: TA55

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: TA55  
Commit: 22843  
Language: en-US  
Modified: 2015-01-29 12:34  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Part number	TA55
Part description	AC Current Line Splitter
<ul style="list-style-type: none"> <li>Provides easy and safe measurements of current and voltage from two or three wire outlets.</li> <li>Plugging the power connector into the line splitter separates the hot/live conductor from the neutral (and ground) for accurate current measurement.</li> <li>Dual ranges (x1 and x10) for higher resolution on low-amperage readings.</li> <li>Built-in recessed voltage testing inputs.</li> <li>2 year warranty.</li> </ul>	
<b>Specifications</b>	
Voltage	120 V $\pm$ 10%
Current	15 A AC maximum
Temperature	Operating: 5–40°C (41–104°F); storage: –20 to 60°C (–4 to 140°F)
Humidity	Operating: max. 80% up to 31°C (87°F) decreasing linearly to 50% at 40°C (104°F); storage <80%
Altitude	2000 m (7000') max.
<b>Meter data</b>	
Suitable main unit	CM78, CM83 (CM82, CM85)
Warranty	2 years
<b>Certifications</b>	
Certifications	UL, CUL, CAT II—600 V
Safety	For indoor use and in accordance with the requirements for double insulation to IEC 1010-1 (1995): EN 61010-1 (1995), Overvoltage Category II, Pollution Degree 2
<b>Meter physical data</b>	
Weight:	0.102 kg
Dimensions (H x W x L)	2.2 cm x 6.03 cm x 16.2 cm
Material	PC-ABS
Color	Black



## AC Current Line splitter

### P/N: TA55

© 2015, FLIR Systems, Inc.  
#TA55; r. 22843; en-US

Shipping information	
Packaging type	Color box with view of product in clamshell
Packaging contents	Manual, TA55
Packaging weight:	0.207 kg
Packaging dimensions (H × W × L)	6.03 cm × 8.6 cm × 24.4 cm
Carton weight	4.4 kg
Carton dimensions	15" × 7.5" × 18.25"
Carton quantity	48
EAN-13	N/A
UPC-12	793950377550
Country of origin	Taiwan
Tariff code	9030908822
Technical support	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>



## P/N: TA14

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: TA14  
Commit: 24248  
Language: en-US  
Modified: 2015-03-25 10:20  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Part Number	TA14
Part Description	Belt clip holster for TG165
Add the TA14 clip holster to your belt to conveniently carry the TG165 Imaging IR Thermometer at your side— whenever, wherever— you need it. The multi-positional, durable and secure design makes it easy for you to quickly access the TG165 while on the job and free your hands for other tools	
<b>Meter Data</b>	
Suitable Main Unit	TG165
Warranty	1 Year
<b>Meter Physical Data</b>	
Weight	0.4 kg ( 0.8 lb. )
Dimensions (H × W × L)	8.5 × 17 × 27 cm ( 3.4 × 6.7 × 10.6 in. )
Material	Rubber patterned PU / Lycra (Exterior), EVA with Velvet finish (Interior)
Color	Black
<b>Shipping Information</b>	
Packaging, type	Color box
Packaging, Contents	Belt clip holster
Each Weight	0.227 kg (0.5 lb.)
Each Dimensions (H × W × L)	190.5 × 102 × 102 mm (7.5 × 4 × 4 in.)
Master Carton Weight	N/A
Master Carton Dimensions	N/A
Master Carton Quantity	N/A
EAN-13	0793950377147
UPC-12	793950377147
Country of Origin	USA
Tariff Code	N/A
<b>Technical support</b>	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>

## P/N: TA70

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: TA70  
Commit: 22843  
Language: en-US  
Modified: 2015-01-29 12:34  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Part number	TA70
Part description	CAT IV Insulated Alligator Probes
<ul style="list-style-type: none"> <li>Works with FLIR TA80 test probes.</li> <li>Complies with latest UL CAT IV/CAT III—1000 V.</li> <li>Slide-on connection with finger guards.</li> <li>2 year warranty.</li> </ul>	
<b>Specifications</b>	
Maximum capacity	10 A
Operating temperature	–10 to 50°C (14 to 122°F)
Relative humidity	Maximum relative humidity 80% for temperature up to 31°C (88°F) decreasing linearly to 50% relative humidity at 50°C (122°F)
Storage temperature	–20 to 60°C (–4 to 140°F), <80% relative humidity
Altitude	Operating below 2000 m (6562')
<b>Meter data</b>	
Suitable main unit	FLIR TA80 test leads
Warranty	2 years
<b>Certifications</b>	
Certifications	IEC/EN 61010-031:2008 and UL 61010-031:2010 to 600 V CAT IV and 1000 V CAT III
<b>Meter physical data</b>	
Weight	0.02 kg
Dimensions (H x W x L)	7.94 cm x 4.13 cm x 1.91 cm



## CAT IV Insulated Alligator Probes

### P/N: TA70

© 2015, FLIR Systems, Inc.

#TA70; r. 22843; en-US

Meter physical data	
Material	Nickel-plated steel, TPR and polypropylene
Color	Black and red
Shipping information	
Packaging type	Color box
Packaging contents	Manual, TA70 alligator clips
Packaging weight	0.05 kg
Packaging dimensions (H × W × L)	7.62 cm × 2.54 cm × 16.83 cm
Carton weight	3.3 kg
Carton dimensions	14.5" × 13" × 8"
Carton quantity	48
EAN-13	N/A
UPC-12	793950377703
Country of origin	Taiwan
Tariff code	9030908822
Technical support	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>

## P/N: TA80

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: TA80  
Commit: 22843  
Language: en-US  
Modified: 2015-01-29 12:34  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Part number	TA80
Part description	CAT IV Silicone Test Leads
<ul style="list-style-type: none"> <li>1000 V, 10 A test probes.</li> <li>UL certified to CAT IV—1000 V rating.</li> <li>Gold-plated tips for professional precision.</li> <li>Double-extruded multi-color silicone leads with wear indication.</li> <li>High-strength stress relief integrated into the probe.</li> <li>41" lead length with a total length of 46" including the probe.</li> <li>Removable probe protection caps for 4mm tips.</li> </ul>	
<b>Specifications</b>	
Maximum capacity	1000 V, 10 A with protective caps
Operating temperature	–10 to 50°C (14–122°F)
Relative humidity	Maximum relative humidity 80% for temperature up to 31°C (88°F) decreasing linearly to 50% relative humidity at 50°C (122°F)
Storage temperature	–20 to 60°C (–4 to 140°F), <80% relative humidity
Altitude	Operating below 2000 m (6562')
<b>Meter data</b>	
Suitable main unit	DM93, CM83, CM78 (IM75, DM92, CM85, CM82)
Warranty	2 years
<b>Certifications</b>	
Certifications	IEC/EN 61010-031:2008 and UL 61010-031:2010 to 1 kV CAT IV (with the protective cap removed: 1 kV CAT II only)
<b>Meter physical data</b>	
Weight:	0.06 kg
Dimensions (H × W × L)	5.08 cm × 3.81 cm × 117 cm
Material	Gold-plated tips, double-extruded silicone (removable caps for 4 mm tips)
Color	Red and black
<b>Shipping information</b>	
Packaging type	Color box
Packaging contents	Manual, TA80 test leads
Packaging weight	0.09 kg
Packaging dimensions (H × W × L)	7.62 cm × 2.54 cm × 16.83 cm
Carton packaging weight	4.4 kg
Carton dimensions	14.5" × 13" × 8"



## CAT IV Silicone Test Leads

### P/N: TA80

© 2015, FLIR Systems, Inc.  
#TA80; r. 22843; en-US

Shipping information	
Carton quantity	48
EAN-13	N/A
UPC-12	793950377802
Country of origin	Taiwan
Tariff code	9030908822
Technical support	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>

## P/N: MR10

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: MR10  
Commit: 22843  
Language: en-US  
Modified: 2015-01-29 12:34  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Part number	MR10
Safeguard your valuable FLIR T&M instruments with our durable EVA protective case. Stow your FLIR test and measurement gear in a FLIR durable EVA protective case to shield against dirt, dings, and harsh environmental conditions.	
<ul style="list-style-type: none"> <li>Fits the FLIR MR7x series of digital multimeters and accessories.</li> <li>Custom instrument compartment protects tools from extremes.</li> <li>Concealed zipper designed for dirt resistance.</li> <li>Resilient nylon carry strap.</li> <li>Ruggedized non-slip finish.</li> </ul>	
<b>Meter data</b>	
Suitable main unit	MR77
Warranty	1 year
<b>Meter physical data</b>	
Weight	0.4 kg
Dimensions (H x W x L)	17.34 cm x 9.72 cm x 26.67 cm
Material	Rubber patterned PU/Lycra (exterior), EVA with velvet finish (interior)
Color	Black
<b>Shipping information</b>	
Packaging type	Color box with view of product in clamshell
Packaging contents	Protective case
Packaging weight	0.56 kg
Packaging dimensions (H x W x L)	17.78 cm x 10.795 cm x 34.29 cm
Carton weight	13.44 kg
Carton dimensions	22.5" x 14.5" x 25"
Carton quantity	20
EAN-13	0793950370117
UPC-12	793950370117
Country of origin	China
Tariff code	4202122020
<b>Technical support</b>	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>

## P/N: TA12

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: TA12  
Commit: 22843  
Language: en-US  
Modified: 2015-01-29 12:34  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Part number	TA12
Part description	General Purpose Accessory Case
Safeguard your valuable FLIR T&M instruments with our durable EVA protective case. Stow your FLIR test and measurement gear in a FLIR durable EVA protective case to shield against dirt, dings, and harsh environmental conditions.	
<ul style="list-style-type: none"> <li>Durable EVA protective case for general accessories.</li> <li>Internal flap with dual pockets separates additional storage compartments.</li> <li>Concealed zipper designed for dirt resistance.</li> <li>Resilient nylon carry strap.</li> <li>Ruggedized non-slip finish.</li> </ul>	
<b>Meter data</b>	
Suitable main unit	General case, non-specific
Warranty	1 year
<b>Meter physical data</b>	
Weight	0.4 kg
Dimensions (H x W x L)	17.34 cm x 9.72 cm x 26.67 cm
Material	Rubber patterned PU/Lycra (exterior), EVA with velvet finish (interior)
Color	Black
<b>Shipping information</b>	
Packaging type	Color box with view of product in clamshell
Packaging contents	Protective case
Packaging weight	0.6 kg
Packaging dimensions (H x W x L)	17.78 cm x 10.795 cm x 34.29 cm
Carton weight	13.56 kg
Carton dimensions	22.5" x 14.5" x 25"
Carton quantity	20
EAN-13	N/A
UPC-12	793950377123
Country of origin	China
Tariff code	4202122020



## General Purpose Accessory Case

### P/N: TA12

© 2015, FLIR Systems, Inc.  
#TA12; r. 22843; en-US

Technical support	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>



## P/N: MR05

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: MR05  
Commit: 23465  
Language:  
Modified: 2015-02-25 16:23  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Part number	MR05
Part description	Impact Pin Moisture Probe
<p>The FLIR MR05 upgrades your FLIR moisture meter to help you easily test for moisture in challenging spots—on rough or uneven surfaces, in corners, in hard woods or high-density materials, and even, with ease, in areas without a dry reference. Made with extra-durable pins and a metallic impact plate that can withstand hammering to drive pins into the hardest materials, the FLIR MR05 lets you tackle the toughest moisture-measurement challenges all day long. Key features include six additional sets of thick and thin pins, an external pin accessory for the FLIR moisture meter mount for extended reach, a 1/4"-20 integrated wrench on the cap to replace pins, a durable BNC connector, a 2 m coiled cord, and a 2 year warranty.</p>	
<b>Meter data</b>	
Suitable main unit	MR77 (MR160 and MR176 coming soon)
Cable length	2.45 m (8') uncoiled
Pin length	10 mm (0.4")
Warranty	2 years (with registration)
<b>Meter physical data</b>	
Weight	195 g (0.43 lb)
Dimensions (H x W x L)	8.4 cm x 7.1 cm x 3.8 cm (3.3" x 2.8" x 1.5")
Material	PC-ABS
Color	Black
<b>Shipping information</b>	
Packaging type	Color retail packaging
Packaging contents	MR05, manual, six extra pin sets (three wide, three standard)
Packaging weight	0.4 kg (0.8 lb)
Packaging dimensions (H x W x L)	31.1 cm x 15.2 cm x 5.7 cm (12.25 x 6 x 2.2 in)
Inner shipping carton weight	1.8 kg (3.98 lb)
Inner shipping carton dimensions (H x W x L)	58.5 cm x 15.9 cm x 12.7 cm (23" x 7" x 5")
Inner shipping carton quantity	4



## Impact Pin Moisture Probe

### P/N: MR05

© 2015, FLIR Systems, Inc.

#MR05; r. 23465;

Shipping information	
Master carton weight	6 kg (13.2 lb)
Master carton dimensions (H x W x L)	60.9 cm x 39.4 cm x 17.8 cm (24" x 16" x 7")
Master carton quantity	12
EAN-13	0793950370056
UPC-12	793950370056
Country of origin	China
Tariff code	9025900000
Technical support	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>
Accessories	
Replacement pins (standard) Part No. MR05-PINS1 (1.50–1.55 mm)	
Replacement pins (wide) Part No. MR05-PINS2 (2.26–2.35 mm)	

## P/N: TA50

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: TA50  
Commit: 22843  
Language: en-US  
Modified: 2015-01-29 12:34  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Part number	TA50
Part description	Magnetic Hanging Strap for DM9x, IM7x Series
<ul style="list-style-type: none"> <li>Hang your meter on metal electrical cabinets—allowing you to focus on your testing.</li> <li>Magnetic strip designed for DM9x series multimeters or any meter that accepts a 1" (25 mm) strap.</li> <li>Durable nylon strap.</li> <li>Securely fastens to the meter with an integrated mounting tab.</li> <li>2 year warranty.</li> </ul>	
<b>Meter data</b>	
Suitable main unit	DM93 (IM75, DM92)
Warranty	2 years
<b>Certifications</b>	
Certifications	N/A
<b>Meter physical data</b>	
Weight	0.03 kg
Dimensions (H x W x L)	29.8 cm x 3.33 cm x 0.48 cm
Material	Nylon strap, rubber tab enclosing the magnet
Color	Black



## Magnetic Hanging Strap for DM9x, IM7x Series

### P/N: TA50

© 2015, FLIR Systems, Inc.  
#TA50; r. 22843; en-US

Shipping information	
Packaging type	Color box
Packaging contents	Manual, TA50
Packaging weight	0.06 kg
Packaging dimensions (H x W x L)	7.62 cm x 2.54 cm x 16.83 cm
Carton weight	4 kg
Carton dimensions	14.5" x 13" x 8"
Carton quantity	48
EAN-13	N/A
UPC-12	793950377505
Country of origin	Taiwan
Tariff code	9027808090
Technical support	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>

## P/N: TA11

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: TA11  
Commit: 22843  
Language: en-US  
Modified: 2015-01-29 12:34  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Part number	TA11
Part description	Protective Case for CM7x and CM8x Series
<p>Safeguard your valuable FLIR T&amp;M instruments with our durable EVA protective case. Stow your FLIR test and measurement gear in a FLIR durable EVA protective case to shield against dirt, dings, and harsh environmental conditions.</p> <ul style="list-style-type: none"> <li>Fits the FLIR CM7x and CM8x series of digital multimeters and accessories.</li> <li>Custom instrument compartment protects tools from extremes.</li> <li>Concealed zipper designed for dirt resistance.</li> <li>Resilient nylon carry strap.</li> <li>Ruggedized non-slip finish.</li> </ul>	
<b>Meter data</b>	
Suitable main unit	CM78, CM83 (CM85, CM82)
Warranty	1 year
<b>Meter physical data</b>	
Weight	0.4 kg
Dimensions (H x W x L)	17.34 cm x 9.72 cm x 26.67 cm
Material	Rubber patterned PU/Lycra (exterior), EVA with velvet finish (interior)
Color	Black
<b>Shipping information</b>	
Packaging type	Color box with view of product in clamshell
Packaging contents	Protective case
Packaging weight	0.7 kg
Packaging dimensions (H x W x L)	17.78 cm x 10.8 cm x 34.29 cm
Carton weight	15.34 kg
Carton dimensions	22.5" x 14.5" x 25"
Carton quantity	20
EAN-13	N/A
UPC-12	793950377116
Country of origin	China
Tariff code	4202122020
<b>Technical support</b>	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>



## Protective Case for CM7x and CM8x Series

---

### P/N: TA11

© 2015, FLIR Systems, Inc.  
#TA11; r. 22843; en-US

Technical support	
Phone	855-499-3662
Repairs	repair@flir.com

## P/N: TA10

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: TA10  
Commit: 22843  
Language: en-US  
Modified: 2015-01-29 12:34  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Part number	TA10
Part description	Protective Case for DM9x and IM7x Series
<p>Safeguard your valuable FLIR T&amp;M instruments with our durable EVA protective case. Stow your FLIR test and measurement gear in a FLIR durable EVA protective case to shield against dirt, dings, and harsh environmental conditions.</p> <ul style="list-style-type: none"> <li>Fits the FLIR DM9x and IM75 series of digital multimeters and accessories.</li> <li>Custom instrument compartment protects tools from extremes.</li> <li>Concealed zipper designed for dirt resistance.</li> <li>Resilient nylon carry strap.</li> <li>Ruggedized non-slip finish.</li> </ul>	
<b>Meter data</b>	
Suitable main unit	DM93, DM92 (IM75)
Warranty	1 year
<b>Meter physical data</b>	
Weight:	0.4 kg
Dimensions (H x W x L)	17.34 cm x 9.72 cm x 26.67 cm
Material	Rubber patterned PU/Lycra (exterior), EVA with velvet finish (interior)
Color	Black
<b>Shipping information</b>	
Packaging type	Color box with view of product in clamshell
Packaging contents	Protective case
Packaging weight	0.6 kg
Packaging dimensions (H x W x L)	17.78 cm x 10.80 cm x 34.29 cm
Carton weight	13.08 kg
Carton dimensions	22.5" x 14.5" x 25"
Carton quantity	20
EAN-13	N/A
UPC-12	793950377109
Country of origin	China
Tariff code	4202122020
<b>Technical support</b>	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>

## P/N: TA13

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: TA13  
Commit: 22843  
Language: en-US  
Modified: 2015-01-29 12:34  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Part Number	TA13
Part Description	Protective case for TG165
Safeguard your valuable FLIR T&M instruments with our durable EVA protective case. Stow your FLIR Test and measurement gear in a FLIR durable EVA protective case to shield against dirt, dings, and harsh environmental conditions. • Fits the FLIR TG165 and accessories • Custom instrument compartment protects tools from extremes • Concealed zipper designed for dirt resistance • Resilient nylon carry strap • Ruggedized non-slip finish	
<b>Meter Data</b>	
Suitable Main Unit	TG165
Warranty	1 Year
<b>Meter Physical Data</b>	
Weight	0.4 kg ( 0.8 lb. )
Dimensions (H x W x L)	8.5 x 17 x 27 cm ( 3.4 x 6.7 x 10.6 in. )
Material	Rubber patterned PU / Lycra (Exterior), EVA with Velvet finish (Interior)
Color	Black
<b>Shipping Information</b>	
Packaging, type	Color box
Packaging, Contents	Protective Case
Each Weight	0.7 kg ( 1.5 lb. )
Each Dimensions (H x W x L)	17.8 x 10.8 x 34.3 cm ( 7 x 4.3 x 13.5 in. )
Master Carton Weight	15 kg ( 33.7 lb. )
Master Carton Dimensions	57.2 x 36.2 x 62.9 cm ( 22.5 x 14.5 x 25 in. )
Master Carton Quantity	20
EAN-13	0793950377130
UPC-12	793950377130
Country of Origin	China
Tariff Code	4202122020
<b>Technical support</b>	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>



## P/N: MR02

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: MR02  
Commit: 24310  
Language:  
Modified: 2015-03-30 11:11  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Part number	MR02
Part description	Replaceable External Moisture Pin Probe for MR77
The FLIR MR77 moisture meter comes with an external moisture pin probe for penetrating measurements. MR02 is the replacement for the accessory included with the MR77 purchase. Additional pins are available (part number MO220-Pins).	
<b>Specifications</b>	
Measurement range	0–100 pin moisture
Output interface	RJ45 connection
<b>Meter data</b>	
Suitable Main Unit	MR77
Warranty	2 years
<b>Meter physical data</b>	
Weight	58.9 g (0.13 lb.)
Dimensions (H x W x L)	6.4 cm x 2.3 cm x 48.3 cm ( 2.5" x 0.9" x 19")
Material	ABS/PC
Color	Black
<b>Shipping information</b>	
Packaging type	White box
Packaging contents	MR02
Packaging dimensions (H x W x L)	8.26 cm x 4.13 cm x 12.38 cm (3.25" x 1.625" x 4.875")
Packaging weight	85 g (0.18 lb.)
EAN-13	0793950370025
UPC-12	793950370025
Country of origin	China
Tariff code	9030908822
<b>Technical support</b>	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>



## Replaceable External Moisture Pin Probe for MR77

---

### P/N: MR02

© 2015, FLIR Systems, Inc.

#MR02; r. 24310;

Technical support	
Phone	855-499-3662
Repairs	repair@flir.com

## P/N: MR01

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: MR01  
Commit: 24311  
Language:  
Modified: 2015-03-30 11:11  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Part number	MR01
Part description	Replaceable T/RH Probe for MR77
Replacement temperature/relative humidity probe for the FLIR MR77 moisture meter:	<ul style="list-style-type: none"> <li>• Metallic screw on connection.</li> <li>• Field replaceable.</li> <li>• Factory calibrated.</li> <li>• Protective cap.</li> </ul>
<b>Specifications</b>	
Temperature range	-28 to +77°C (-18 to +170°F)
Temperature accuracy	±2°C (3.6°F)
Relative humidity range/accuracy at 20–30°C (68–86°F)	0–10 ±3 %, 10–90 ± 2.5%, 90–99 ±3%
<b>Meter data</b>	
Suitable main unit	MR77
Warranty	1 year
<b>Meter physical data</b>	
Weight:	19.8 g (0.04 lb.)
Dimensions (H × W × L)	2.5 cm × 2.5 cm × 4.4 cm (1" × 1" × 1.75")
Material	Plastic and metal
Color	Black
<b>Shipping information</b>	
Packaging type	Clear plastic bag
Packaging contents	MR01, protective cap enclosure
Packaging dimensions (H × W × L)	6.03 cm × 2.54 cm × 8.89 cm (2.375" × 1" × 3.5")
Packaging weight	19.8 g (0.04 lb.)
EAN-13	0793950370018
UPC-12	793950370018
Country of origin	China
Tariff code	9030908822



## Replaceable T/RH Probe for MR77

---

### P/N: MR01

© 2015, FLIR Systems, Inc.  
#MR01; r. 24311;

Technical support	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>

## P/N: TA60

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: TA60  
Commit: 22843  
Language: en-US  
Modified: 2015-01-29 12:34  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Part number	TA60
Part description	Thermocouple Probe with Adapter
<ul style="list-style-type: none"> <li>Type K thermocouple temperature sensor.</li> <li>Can be used to measure temperature with many meters.</li> <li>Fast responding with a wide general-purpose measurement range.</li> <li>Safety-shrouded banana to banana connection.</li> <li>2 year warranty</li> </ul>	
<b>Specifications</b>	
Temperature range	-40 to 1200°C (-40 to 2192°F)
<b>Meter data</b>	
Suitable main unit	DM93, CM78 (DM92)
Warranty	2 years
<b>Certifications</b>	
Certifications	ITS-90 (JIS C-1602-1995 Class 2)
<b>Meter physical data</b>	
Weight	0.06 kg
Dimensions (H x W x L)	15.24 cm x 3.81 cm x 1.27 cm
Material	ABS plus PC, bronze (nickel plated), PVC
Color	Black and yellow



## Thermocouple Probe with Adapter

### P/N: TA60

© 2015, FLIR Systems, Inc.

#TA60; r. 22843; en-US

Shipping information	
Packaging type	Color box
Packaging contents	Manual, TA60
Packaging weight:	0.08 kg
Packaging dimensions (H × W × L)	7.62 cm × 2.54 cm × 16.83 cm
Carton weight	4 kg
Carton dimensions	14.5" × 13" × 8"
Carton quantity	48
EAN-13	N/A
UPC-12	793950377604
Country of origin	Taiwan
Tariff code	9030908822
Technical support	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>

## P/N: VSC2-58-1FM

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: VSC2-58-1FM  
Commit: 22843  
Language: en-US  
Modified: 2015-01-29 12:34  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Part No.	VSC2-58-1FM
<b>General information</b>	
Short description	Two-channel camera, 5.8 mm diameter with 1 m probe
Compatible main unit	VS70
Integrated handset	No
Wireless capabilities	N/A
Compatible wireless handset	With optional VST (cannot switch cameras with VST)
Compatible detachable cameras	N/A
Warranty	2 years
<b>Camera specifications</b>	
Articulation	No
Diameter	5.8 mm
Front camera focal length	20–60 mm
Front camera field of view	56°
Front camera resolution	QVGA (320 × 240) pixels
Side camera focal length	20–60 mm
Side camera field of view	56°
Side camera resolution	QVGA (320 × 240) pixels
Probe length	1 m
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED
<b>Power system</b>	
Power requirements	N/A
<b>Environmental data</b>	
Operating temperature	–10 to 50°C (14–122°F)
Operating humidity	80% maximum
Storage temperature	–40 to 80°C (–40 to 176°F)
<b>Physical data</b>	
Weight	See shipping information
Dimensions (H × W × L)	See shipping information
Material	PC-ABS, rubber hand grip, nylon strap
Color	Gray, black



## Two-channel camera, 5.8 mm diameter with 1 m probe

### P/N: VSC2-58-1FM

© 2015, FLIR Systems, Inc.

#VSC2-58-1FM; r. 22843; en-US

Shipping information	
Packaging type	White box with FLIR accessory printing
Packaging contents	White box with FLIR accessory graphic, camera, camera attachment: anti-snag tip
Packaging weight	0.35 kg
Packaging dimensions (H × W × L)	22 cm × 19 cm × 5 cm
Carton weight	8.5 kg
Carton dimensions (H × W × L)	46 cm × 32 cm × 40 cm
Carton quantity	24
EAN-13	0793950400920
UPC-12	793950400920
Country of origin	TW
Tariff code	9013909000
Technical support	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>



## P/N: VSA2-1

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: VSA2-1  
Commit: 22843  
Language: en-US  
Modified: 2015-01-29 12:34  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Part No.	VSA2-1
<b>General information</b>	
Short description	Two-way 6 mm (0.24") articulating camera with 1 m (3.3') probe with long focus
Compatible main unit	VS70
Integrated handset	Yes
Wireless capabilities	No
Compatible wireless handset	N/A
Compatible detachable cameras	N/A
Warranty	2 years
<b>Camera specifications</b>	
Articulation	Two-way 240 ± 20° manual tip articulation
Diameter	6 mm
Resolution	VGA ( 640 × 480 pixels)
Probe length	1 m
Focal length	65 mm to infinity
Field of view	56°
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED
<b>Power system</b>	
Power requirements	N/A
<b>Environmental data</b>	
Operating temperature	-10 to 50°C (14–122°F)
Operating humidity	80% maximum
Storage temperature	-40 to 80°C (-40 to 176°F)
<b>Physical data</b>	
Weight	0.43 kg (0.95 lb.)
Dimensions (H × W × L)	190 mm × 70 mm × 63.5 mm (7.5" × 2.75" × 2.5")



## Two-way 6 mm (0.24") articulating camera with 1 m (3.3') probe with long focus

### P/N: VSA2-1

© 2015, FLIR Systems, Inc.

#VSA2-1; r. 22843; en-US

Physical data	
Material	PC-ABS, rubber hand grip, nylon strap
Color	Gray, black
Shipping information	
Packaging type	White box with FLIR accessory printing
Packaging contents	White box with FLIR accessory graphic, VSA2-1M, camera attachments: mirror, anti-snap tip, magnet
Packaging weight	1.25 kg
Packaging dimensions (H × W × L)	43 cm × 37 cm × 7.5 cm
Carton weight	6 kg
Carton dimensions (H × W × L)	45 cm × 31 cm × 39 cm
Carton quantity	4
EAN-13	0793950400784
UPC-12	793950400784
Country of origin	TW
Tariff code	9013909000
Technical support	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>

## P/N: VSA2-1M

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: VSA2-1M  
Commit: 22843  
Language: en-US  
Modified: 2015-01-29 12:34  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Part No.	VSA2-1M
<b>General information</b>	
Short description	Two-way 6 mm (0.24") articulating camera with 1 m (3.3') probe with macro short focus
Compatible main unit	VS70
Integrated handset	Yes
Wireless capabilities	No
Compatible wireless handset	N/A
Compatible detachable cameras	N/A
Warranty	2 years
<b>Camera specifications</b>	
Articulation	Two-way 240 ± 20° manual tip articulation
Diameter	6 mm
Resolution	VGA ( 640 × 480 pixels)
Probe length	1 m
Focal length	20–60 mm
Field of view	56°
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED
<b>Power system</b>	
Power requirements	N/A
<b>Environmental data</b>	
Operating temperature	–10 to 50°C (14–122°F)
Operating humidity	80% maximum
Storage temperature	–40 to 80°C (–40 to 176°F)
<b>Physical data</b>	
Weight	0.43 kg (0.95 lb.)
Dimensions (H × W × L)	190 mm × 70 mm × 63.5 mm (7.5" × 2.75" × 2.5")
Material	PC-ABS, rubber hand grip, nylon strap
Color	Gray, black



**Two-way 6 mm (0.24") articulating camera with 1 m (3.3') probe with macro short focus**

**P/N: VSA2-1M**

© 2015, FLIR Systems, Inc.  
#VSA2-1M; r. 22843; en-US

Shipping information	
Packaging type	White box with FLIR accessory printing
Packaging contents	White box with FLIR accessory graphic, VSA2-1M, camera attachments: mirror, anti-snag tip, magnet
Packaging weight	1.25 kg
Packaging dimensions (H x W x L)	43 cm x 37 cm x 7.5 cm
Carton weight	6 kg
Carton dimensions (H x W x L)	45 cm x 31 cm x 39 cm
Carton quantity	4
EAN-13	0793950400791
UPC-12	793950400791
Country of origin	TW
Tariff code	9013909000
Technical support	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>



## Two-way 6 mm (0.24") articulating camera with 2 m (78") probe with long focus

### P/N: VSA2-2

#### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

#### Document identity

Publ. No.: VSA2-2  
Commit: 22843  
Language: en-US  
Modified: 2015-01-29 12:34  
Formatted: 2015-05-12

#### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

#### Website

<http://www.flir.com>

#### Customer support

<http://support.flir.com>

#### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Part No	VSA2-2
<b>General info</b>	
Short description	Two-way 6 mm (0.24") articulating camera with 2 m (78") probe with long focus
Compatible main unit	VS70
Integrated handset	Yes
Wireless capabilities	No
Compatible wireless handset	N/A
Compatible detachable cameras	N/A
Warranty	2 years
<b>Camera specifications</b>	
Articulation	Two-way 240 ± 20° manual tip articulation
Diameter	6 mm
Resolution	VGA ( 640 × 480 pixels)
Probe length	2 m
Focal length	65 mm to infinity
Field of view	56°
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED
<b>Power system</b>	
Power requirements	N/A
<b>Environmental data</b>	
Operating temperature	-10 to 50°C (14–122°F)
Operating humidity	80% maximum
Storage temperature	-40 to 80°C (-40 to 176°F)
<b>Physical data</b>	
Weight	0.43 kg (0.95 lb.)
Dimensions (H × W × L)	190 mm × 70 mm × 63.5 mm (7.5" × 2.75" × 2.5")
Material	PC-ABS, rubber hand grip, nylon strap
Color	Gray, black



## Two-way 6 mm (0.24") articulating camera with 2 m (78") probe with long focus

### P/N: VSA2-2

© 2015, FLIR Systems, Inc.

#VSA2-2; r. 22843; en-US

Shipping information	
Packaging type	White box with FLIR accessory printing
Packaging contents	White box with FLIR accessory graphic, VSA2-2, camera attachments: mirror, anti-snag tip, magnet
Packaging weight	1.3 KG
Packaging dimensions (H x W x L)	43 cm x 37 cm x 7.5 cm
Carton weight	6.2 kg
Carton dimensions (H x W x L)	45 cm x 31 cm x 39 cm
Carton quantity	4
EAN-13	0793950400821
UPC-12	793950400821
Country of origin	TW
Tariff code	9013909000
Technical support	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>



## Two-way 6 mm (0.24") articulating camera with 2 m (78") probe with short macro focus

### P/N: VSA2-2M

#### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

#### Document identity

Publ. No.: VSA2-2M  
Commit: 22843  
Language: en-US  
Modified: 2015-01-29 12:34  
Formatted: 2015-05-12

#### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

#### Website

<http://www.flir.com>

#### Customer support

<http://support.flir.com>

#### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Part No.	VSA2-2M
<b>General information</b>	
Short description	Two-way 6 mm (0.24") articulating camera with 2 m (78") probe with short macro focus
Compatible main unit	VS70
Integrated handset	Yes
Wireless capabilities	No
Compatible wireless handset	N/A
Compatible detachable cameras	N/A
Warranty	2 years
<b>Camera specifications</b>	
Articulation	Two-way 240 ± 20° manual tip articulation
Diameter	6 mm
Resolution	VGA ( 640 × 480 pixels)
Probe length	2 m
Focal length	20–60 mm
Field of view	56°
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED
<b>Power system</b>	
Power requirements	N/A
<b>Environmental data</b>	
Operating temperature	–10 to 50° (14–122°F)
Operating humidity	80% maximum
Storage temperature	–40 to 80°C (–40 to 176°F)
<b>Physical data</b>	
Weight	0.43 kg (0.95 lb.)
Dimensions (H × W × L)	190 mm × 70 mm × 63.5 mm (7.5" × 2.75" × 2.5")
Material	PC-ABS, rubber hand grip, nylon strap
Color	Gray, black



**Two-way 6 mm (0.24") articulating camera with 2 m (78") probe with short macro focus**

**P/N: VSA2-2M**

© 2015, FLIR Systems, Inc.  
#VSA2-2M; r. 22843; en-US

Shipping information	
Packaging type	White box with FLIR accessory printing
Packaging contents	White box with FLIR accessory graphic, VSA2-2M, camera attachments: mirror, anti-snag tip, magnet
Packaging weight	1.3 kg
Packaging dimensions (H × W × L)	43 cm × 37 cm × 7.5 cm
Carton weight	6.2 kg
Carton dimensions (H × W × L)	45 cm × 31 cm × 39 cm
Carton quantity	4
EAN-13	0793950400838
UPC-12	793950400838
Country of origin	TW
Tariff code	9013909000
Technical support	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>



## P/N: VST

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: VST  
Commit: 22843  
Language: en-US  
Modified: 2015-01-29 12:34  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Introduction	Wireless handset for the VS70 system
<b>VST general</b>	
SAP description	Wireless 2.4 GHz handset transmitter for the VS70 system
Compatible main unit	VS70
Compatible wireless handset	N/A
Compatible cameras and spools	VSC3.9-1FM, VSC4.1-2RM, VSC5.8-1RM, VSC5.8-2RM, VSC5.8-1R, VSC5.8-2R, VSC5.8-20M, VSC5.8-30M, VSC8.0-1R, VSC8.0-2R, VSC6.5-12S, VSC6.5-17S, VSS-20, VSS-30
Wireless frequency	2.4 GHz to main unit
Unobstructed effective range	10 m (32.5')
Video system	NTSC/PAL
Battery	3.7 V rechargeable lithium polymer
Power adapter	100–240 V input/9 V DC output
Operating temperature	–10 to 60°C (14–140°F)
Storage temperature	–40 to 80°C (–40 to 176°F)
Product dimensions	190 mm × 70 mm × 63.5 mm (7.5" × 2.75" × 2.5")
Weight (approximate)	0.43 kg (0.95 lb.)
Color	Gray, black
Warranty	2 years
<b>Shipping information</b>	
Packaging type	White box with FLIR accessory printing
Packaging contents	White box with FLIR accessory printing, VST
Packaging weight	0.55 kg



## Wireless handset for the VS70 system

### P/N: VST

© 2015, FLIR Systems, Inc.

#VST; r. 22843; en-US

Shipping information	
Packaging dimensions (H × W × L)	23.5 cm × 7.5 cm × 7 cm
Carton weight	12 kg
Carton dimensions (H × W × L)	39.5 cm × 37 cm × 25.5 cm
Carton quantity	20
EAN-13	0793950406168
UPC-12	793950406168
Country of origin	TW
Tariff code	9013909000
Technical support	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>

## P/N: VSA4-1M-W

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: VSA4-1M-W  
Commit: 22843  
Language:  
Modified: 2015-01-29 12:34  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Part number	VSA4-1M-W
The new FLIR wireless four-way articulation videoscope cameras for the VS70 allows for inspection of tight, remote, and off-center targets. Use both articulation knobs to control movement of the camera up, down, left, and right to get a complete video or picture for your inspection. These cameras come with an integrated handset that contains power and brightness adjustment buttons. Set your display down or let it hang from the neck strap while you focus on your probe orientation without worrying about cords. Also included are the handy camera tip accessories that allow viewing at a 45° angle (mirror), retrieving a metallic object (magnet), and reduce the likelihood of getting stuck (anti-snag ball).	
<b>General information</b>	
Compatible main unit	VS70
Integrated handset	Yes
Wireless capabilities	2.4 GHz to main unit
Wireless maximum range	30 m
Compatible wireless handset	N/A
Compatible detachable cameras	N/A
Warranty	2 years
<b>Camera specifications</b>	
Articulation	240 ± 20° manual tip articulation
Diameter	8 mm
Resolution	VGA ( 640 × 480 pixels)
Probe length	1 m
Focal length	25–60 mm
Field of view	60°
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with 10 level options
Lamp type	LED
Adjustable articulation tension	Yes, via manual knob
<b>Power system</b>	
Power requirements	Integrated rechargeable battery
Run time	2 hours continuous use



## Wireless four-way articulating camera, focal length 25–60 mm

### P/N: VSA4-1M-W

© 2015, FLIR Systems, Inc.

#VSA4-1M-W; r. 22843;

<b>Power system</b>	
Auto power off	No
Power adapter	100–240 V input/5 V DC output
<b>Environmental data</b>	
IP rating	IP67
Drop test	2 m
Operating ambient temperature	–20 to 70°C (–4 to 158°F)
Operating humidity	95% maximum
Storage temperature:	–20 to 70°C (–4 to 158°F)
Storage humidity	80% maximum
<b>Meter physical data</b>	
Weight	0.88 kg (1.95 lb.)
Dimensions (H × W × L)	82.55 mm × 63.5 mm × 1168.4 mm (3.25" × 2.5" × 46")
Material	PC-ABS
Color	Gray, black
<b>Shipping information</b>	
Packaging type	White box with FLIR accessory printing
Packaging contents	White box with FLIR accessory graphic, VSA4-1M-W, user guide, camera attachments: mirror, anti-snap tip, magnet
Packaging weight	1.52 kg (3.35 lb.)
Packaging dimensions (H × W × L)	69.8 mm × 361.9 mm × 431.8 mm (2.75" × 14.25" × 17")
Carton weight	7 kg (15.4 lb.)
Carton dimensions	387.4 × 444.5 × 330.2 mm (15.25" × 17.5" × 13")
Carton quantity	4
EAN-13	0793950406182
UPC-12	793950406182
Country of origin	Taiwan
Tariff code	9013909000
<b>Accessories</b>	
Extra camera accessories	VS80-A
<b>Technical support</b>	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>

## P/N: VSA4-1-W

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: VSA4-1-W  
Commit: 22843  
Language:  
Modified: 2015-01-29 12:34  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Part number	VSA4-1-W
Part description	<p>The new FLIR wireless four-way articulation videoscope cameras for the VS70 allows for inspection of tight, remote, and off-center targets. Use both articulation knobs to control movement of the camera up, down, left, and right to get a complete video or picture for your inspection. These cameras come with an integrated handset that contains power and brightness adjustment buttons. Set your display down or let it hang from the neck strap while you focus on your probe orientation without worrying about cords. Also included are the handy camera tip accessories that allow viewing at a 45° angle (mirror), retrieving a metallic object (magnet), and reduce the likelihood of getting stuck (anti-snag ball).</p>
<b>General information</b>	
Compatible main unit	VS70
Integrated handset	Yes
Wireless capabilities	2.4 GHz to main unit
Wireless maximum range	30 m
Compatible wireless handset	N/A
Compatible detachable cameras	N/A
Warranty	2 years
<b>Camera specifications</b>	
Articulation	240 ± 20° manual tip articulation
Diameter	8 mm
Resolution	VGA ( 640 × 480 pixels)
Probe length	1 m
Focal length	60 mm to infinity
Field of view	60°
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED
Adjustable articulation tension	Yes, via manual knob
<b>Power system</b>	
Power requirements	3.7 V rechargeable lithium polymer
Run time	2 hours continuous use



## Wireless four-way articulating camera, focal length 60 mm to infinity

### P/N: VSA4-1-W

© 2015, FLIR Systems, Inc.

#VSA4-1-W; r. 22843;

Power system	
Auto power off	No
Power adapter	100–240 V input/5 V DC output
Environmental data	
IP rating	IP67
Drop test	2 m
Operating ambient temperature	–20 to 70°C (–4 to 158°F)
Operating humidity	95% maximum
Storage temperature	–20 to 70°C (–4 to 158°F)
Storage humidity	80% maximum
Meter physical data	
Weight:	0.88 kg (1.95 lb.)
Dimensions (H × W × L)	82.55 mm × 63.5 mm × 1168.4 mm (3.25" × 2.5" × 46")
Material	PC-ABS, rubber hand grip, nylon strap
Color	Gray, black
Shipping information	
Packaging type	White box with FLIR accessory printing
Packaging contents	White box with FLIR accessory graphic, VSA4-1-W, user guide, camera attachments: mirror, anti-snag tip, magnet
Packaging weight	1.52 kg (3.35 lb.)
Packaging dimensions (H × W × L)	69.8 mm × 361.9 mm × 431.8 mm (2.75" × 14.25" × 17")
Carton weight	7 kg (15.4 lb.)
Carton dimensions	387.4 mm × 444.5 mm × 330.2 mm (15.25" × 17.5" × 13")
Carton quantity	4
EAN-13	0793950406199
UPC-12	793950406199
Country of origin	Taiwan
Tariff code	9013909000
Accessories	
Extra camera accessories	VS80-A
Technical support	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>

## P/N: VSA2-1-W

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: VSA2-1-W  
Commit: 22843  
Language: en-US  
Modified: 2015-01-29 12:34  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Part No.	VSA2-1-W
<b>General information</b>	
Short description	Wireless two-way 6 mm (0.24") articulating camera with 1 m (3.3') probe with long focus
Comtadible main unit	VS70
Integrated handset	Yes
Wireless capabilities	2.4 GHz to main unit
Comtadible wireless handset	N/A
Comtadible detachable cameras	N/A
Warranty	2 years
<b>Camera specifications</b>	
Articulation	Two-way 240 ± 20° manual tip articulation
Diameter	6 mm
Resolution	VGA ( 640 × 480 pixels)
Probe length	1 m
Focal length	65 mm to Infinity
Field of view	56°
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED
<b>Power system</b>	
Power requirements	Integrated rechargeable battery
Run time	2 hours continuous use
Auto power off	No
Power adapter	100–240 V input/5 V DC output



**Wireless two-way 6 mm (0.24") articulating camera with 1 m (3.3') probe with long focus**

**P/N: VSA2-1-W**

© 2015, FLIR Systems, Inc.  
#VSA2-1-W; r. 22843; en-US

Environmental data	
Operating temperature	−10 to 50°C (14–122°F)
Operating humidity	80% maximum
Storage temperature	−40 to 80°C (−40 to 176°F)
Physical data	
Weight	0.43 kg (0.95 lb.)
Dimensions (H × W × L)	190 mm × 70 mm × 63.5 mm (7.5" × 2.75" × 2.5")
Material	PC-ABS, rubber hand grip, nylon strap
Color	Gray, black
Shipping information	
Packaging type	White box with FLIR accessory printing
Packaging contents	White box with FLIR accessory graphic, VSA2-1-W, camera attachments: mirror, anti-snag tip, magnet
Packaging weight	1.3 kg
Packaging dimensions (H × W × L)	43 cm × 37 cm × 7.5 cm
Carton weight	6.2 kg
Carton dimensions (H × W × L)	45 cm × 31 cm × 39 cm
Carton quantity	4
EAN-13	0793950400814
UPC-12	793950400814
Country of origin	TW
Tariff code	9013909000
Technical support	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>





## Wireless two-way 6 mm (0.24") articulating camera with 1 m (3.3') probe with macro short focus

### P/N: VSA2-1M-W

#### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

#### Document identity

Publ. No.: VSA2-1M-W  
Commit: 22843  
Language: en-US  
Modified: 2015-01-29 12:34  
Formatted: 2015-05-12

#### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

#### Website

<http://www.flir.com>

#### Customer support

<http://support.flir.com>

#### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Part No.	VSA2-1M-W
<b>General information</b>	
Short description	Wireless two-way 6 mm (0.24") articulating camera with 1 m (3.3') probe with macro short focus
Compatible main unit	VS70
Integrated handset	Yes
Wireless capabilities	2.4 GHz to main unit
Compatible wireless handset	N/A
Compatible detachable cameras	N/A
Warranty	2 years
<b>Camera specifications</b>	
Articulation	Two-way 240 ± 20° manual tip articulation
Diameter	6 mm
Resolution	VGA ( 640 × 480 pixels)
Probe length	1 m
Focal length	20–60 mm
Field of view	56°
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED
<b>Power system</b>	
Power requirements	Integrated rechargeable battery
Run time	2 hours continuous use
Auto power off	No
Power adapter	100–240 V input/5 V DC output
<b>Environmental data</b>	
Operating temperature	–10 to 50°C (14–122°F)
Operating humidity	80% maximum
Storage temperature	–40 to 80°C (–40 to 176°F)
<b>Physical data</b>	
Weight	0.43 kg (0.95 lb.)
Dimensions (H × W × L)	190 mm × 70 mm × 63.5 mm (7.5" × 2.75" × 2.5")
Material	PC-ABS, rubber hand grip, nylon strap
Color	Gray, black



**Wireless two-way 6 mm (0.24") articulating camera with 1 m (3.3') probe with macro short focus**

**P/N: VSA2-1M-W**

© 2015, FLIR Systems, Inc.  
#VSA2-1M-W; r. 22843; en-US

Shipping information	
Packaging type	White box with FLIR accessory printing
Packaging contents	White box with FLIR accessory graphic, VSA2-1M-W, camera attachments: mirror, anti-snag tip, magnet
Packaging weight	1.3 kg
Packaging dimensions (H × W × L)	43 cm × 37 cm × 7.5 cm
Carton weight	6.2 kg
Carton dimensions (H × W × L)	45 cm × 31 cm × 39 cm
Carton quantity	4
EAN-13	0793950400807
UPC-12	793950400807
Country of origin	TW
Tariff code	9013909000
Technical support	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>



## Wireless two-way 6 mm (0.24") articulating camera with 2 m (78") probe with long focus

### P/N: VSA2-2-W

#### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

#### Document identity

Publ. No.: VSA2-2-W  
Commit: 22843  
Language: en-US  
Modified: 2015-01-29 12:34  
Formatted: 2015-05-12

#### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

#### Website

<http://www.flir.com>

#### Customer support

<http://support.flir.com>

#### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Part No.	VSA2-2-W
<b>General information</b>	
Short description	Wireless two-way 6 mm (0.24") articulating camera with 2 m (78") probe with long focus
Compatible main unit	VS70
Integrated handset	Yes
Wireless capabilities	2.4 GHz to main unit
Compatible wireless handset	N/A
Compatible detachable cameras	N/A
Warranty	2 Yr
<b>Camera specifications</b>	
Articulation	two-way 240 ± 20° manual tip articulation
Diameter	6 mm
Resolution	VGA ( 640 × 480 pixels)
Probe length	2 m
Focal length	65 mm to infinity
Field of view	56°
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED
<b>Power system</b>	
Power requirements	Integrated rechargeable battery
Run time	2 hours continuous use
Auto power off	No
Power adapter	100–240 V input/5 V DC output



## Wireless two-way 6 mm (0.24") articulating camera with 2 m (78") probe with long focus

### P/N: VSA2-2-W

© 2015, FLIR Systems, Inc.  
#VSA2-2-W; r. 22843; en-US

Environmental data	
Operating temperature	−10 to 50°C (14–122°F)
Operating humidity	80% maximum
Storage temperature	−40 to 80°C (−40 to 176°F)
Physical data	
Weight	0.43 kg (0.95 lb.)
Dimensions (H × W × L)	190 mm × 70 mm × 63.5 mm (7.5" × 2.75" × 2.5")
Material	PC-ABS, rubber hand grip, nylon strap
Color	Gray, black
Shipping information	
Packaging type	White box with FLIR accessory printing
Packaging contents	White box with FLIR accessory graphic, VSA2-2-W, camera attachments: mirror, anti-snag tip, magnet
Packaging weight	1.4 kg
Packaging dimensions (H × W × L)	43 cm × 37 cm × 7.5 cm
Carton weight	6.5 kg
Carton dimensions (H × W × L)	45 cm × 31 cm × 39 cm
Carton quantity	4
EAN-13	0793950400852
UPC-12	793950400852
Country of origin	TW
Tariff code	9013909000
Technical support	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>



## Wireless two-way 6 mm (0.24") articulating camera with 2 m (78") probe with short macro focus

### P/N: VSA2-2M-W

#### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

#### Document identity

Publ. No.: VSA2-2M-W  
Commit: 22843  
Language: en-US  
Modified: 2015-01-29 12:34  
Formatted: 2015-05-12

#### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

#### Website

<http://www.flir.com>

#### Customer support

<http://support.flir.com>

#### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Part No.	VSA2-2M-W
<b>General information</b>	
Short description	Wireless two-way 6 mm (0.24") articulating camera with 2 m (78") probe with short macro focus
Compatible main unit	VS70
Integrated handset	Yes
Wireless capabilities	2.4 GHz to main unit
Compatible wireless handset	N/A
Compatible detachable cameras	N/A
Warranty	2 years
<b>Camera specifications</b>	
Articulation	Two-way 240 ± 20° manual tip articulation
Diameter	6 mm
Resolution	VGA ( 640 × 480 pixels)
Probe length	2 m
Focal length	20–60 mm
Field of view	56°
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED
<b>Power system</b>	
Power requirements	Integrated rechargeable battery
Run time	2 hours continuous use
Auto power off	No
Power adapter	100–240 V input/5 V DC output



## Wireless two-way 6 mm (0.24") articulating camera with 2 m (78") probe with short macro focus

### P/N: VSA2-2M-W

© 2015, FLIR Systems, Inc.  
#VSA2-2M-W; r. 22843; en-US

Environmental data	
Operating temperature	−10 to 50°C (14–122°F)
Operating humidity	80% maximum
Storage temperature	−40 to 80°C (−40 to 176°F)
Physical data	
Weight	0.43 kg (0.95 lb.)
Dimensions (H × W × L)	190 mm × 70 mm × 63.5 mm (7.5" × 2.75" × 2.5")
Material	PC-ABS, rubber hand grip, nylon strap
Color	Gray, black
Shipping information	
Packaging type	White box with FLIR accessory printing
Packaging contents	White box with FLIR accessory graphic, camera, camera attachments: mirror, anti-snag tip, magnet
Packaging weight	1.4 kg
Packaging dimensions (H × W × L)	43 cm × 37 cm × 7.5 cm
Carton weight	6.5 kg
Carton dimensions (H × W × L)	45 cm × 31 cm × 39 cm
Carton quantity	4
EAN-13	0793950400845
UPC-12	793950400845
Country of origin	TW
Tariff code	9013909000
Technical support	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>

# Accessories for FLIR P6xx series (discontinued camera series)

---

## P/N: 19250-100

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 19250-100  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This device is a viewport which consist of a crystal "glass" window, mounted in an aluminum frame. The glass is specially formulated to allow transmission of infrared light to allow use of infrared thermal sensing equipment without opening the enclosure. This device is intended for installation in doors or walls of electrical enclosures without compromising the integrity of the enclosure.	
Power system	
Voltage	Any range
Environmental data	
Environment	Indoor/outdoor type 4/12
Operating temperature range	Maximum: 260°C (500°F)
Storage temperature range	Optics, maximum: 1357°C (2474°F)
Physical data	
Size (L × W × H)	25.5 × 73 × 86 mm (1.0 × 2.87 × 3.36 in.)
Viewing aperture diameter	45 mm (1.77 in.)
Material	Optics: CaF <sub>2</sub> (Calcium Fluoride Crystal) Body: Anodized aluminum Hardware: steel
Comments to physical data	Required hole diameter, nominal: 60.3 mm (2.375 in.) Greenlee Punch: 76BB Maximum pullout strength: 658 kg (1450 lb.)
Lens	
Waveband	Broadband IR: short-, mid-, and longwave
Visible light spectrum	Yes
Certifications	
Certification	UL, IP67, NEMA Type 4/12, CSA
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>IR window</li> <li>Case</li> <li>Mounting instruction</li> <li>Additional safety screw</li> </ul>
Packaging, weight	0.24 kg (0.53 lb.)
Packaging, size	120 × 115 × 40 mm (4.7 × 4.5 × 1.6 in.)
EAN-13	4743254000728
UPC-12	845188002817
Country of origin	Estonia





IR Window 2 in

---

**P/N: 19250-100**

© 2015, FLIR Systems, Inc.  
#19250-100; r. 23306; en-US

**Supplies & accessories:**

## P/N: 19251-100

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 19251-100  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This device is a viewport which consist of a crystal "glass" window, mounted in an aluminum frame. The glass is specially formulated to allow transmission of infrared light to allow use of infrared thermal sensing equipment without opening the enclosure. This device is intended for installation in doors or walls of electrical enclosures without compromising the integrity of the enclosure.	
Power system	
Voltage	Any range
Environmental data	
Environment	Indoor/outdoor type 4/12
Operating temperature range	Maximum: 260°C (500°F)
Storage temperature range	Optics, maximum: 1357°C (2474°F)
Physical data	
Size (L × W × H)	26.9 × 99 × 107 mm (1.05 × 3.89 × 4.22 in.)
Viewing aperture diameter	69 mm (2.71 in.)
Material	Optics: CaF <sub>2</sub> (Calcium Fluoride Crystal) Body: Anodized aluminum Hardware: steel
Comments to physical data	Required hole diameter, nominal: 88.9 mm (3.5 in.) Greenlee Punch: 739BB Maximum pullout strength: 1656 kg (3650 lb.)
Lens	
Waveband	Broadband IR: short-, mid-, and longwave
Visible light spectrum	Yes
Certifications	
Certification	UL, IP67, NEMA Type 4/12, CSA
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>IR window</li> <li>Case</li> <li>Mounting instruction</li> <li>Additional safety screw</li> </ul>
Packaging, weight	0.39 kg (0.86 lb.)
Packaging, size	130 × 140 × 40 mm (5.12 × 5.51 × 1.58 in.)
EAN-13	4743254000735
UPC-12	845188002824
Country of origin	Estonia



IR Window 3 in.

---

**P/N: 19251-100**

© 2015, FLIR Systems, Inc.  
#19251-100; r. 23306; en-US

**Supplies & accessories:**

## P/N: 19252-100

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 19252-100  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This device is a viewport which consist of a crystal "glass" window, mounted in an aluminum frame. The glass is specially formulated to allow transmission of infrared light to allow use of infrared thermal sensing equipment without opening the enclosure. This device is intended for installation in doors or walls of electrical enclosures without compromising the integrity of the enclosure.	
Power system	
Voltage	Any range
Environmental data	
Environment	Indoor/outdoor type 4/12
Operating temperature range	Maximum: 260°C (500°F)
Storage temperature range	Optics, maximum: 1357°C (2474°F)
Physical data	
Size (L x W x H)	29.3 x 127 x 137 mm (1.15 x 5.01 x 5.37 in.)
Viewing aperture diameter	89 mm (3.50 in.)
Material	Optics: CaF <sub>2</sub> (Calcium Fluoride Crystal) Body: Anodized aluminum Hardware: steel
Comments to physical data	Required hole diameter, nominal: 114.3 mm (4.5 in.) Greenlee Punch: 742BB Maximum pullout strength: 1678 kg (3700 lb.)
Lens	
Waveband	Broadband IR: short-, mid-, and longwave
Visible light spectrum	Yes
Certifications	
Certification	UL, IP67, NEMA Type 4/12, CSA
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>IR window</li> <li>Case</li> <li>Mounting instruction</li> <li>Additional safety screw</li> </ul>
Packaging, weight	0.46 kg (1.01 lb.)
Packaging, size	165 x 175 x 40 mm (6.50 x 6.89 x 1.58 in.)
EAN-13	4743254000742
UPC-12	845188002831
Country of origin	Estonia



IR Window 4 in.

---

**P/N: 19252-100**

© 2015, FLIR Systems, Inc.  
#19252-100; r. 23306; en-US

**Supplies & accessories:**

## P/N: 19250-200

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 19250-200  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Part name	IRW-2S
Material number	19250-200
Part description	Stainless steel IR window, 2" diameter
This device is a viewport that consist of a crystal "glass" window mounted in an aluminum frame. The glass is specially formulated to allow transmission of infrared (IR) light to allow use of IR thermal sensing equipment without opening the enclosure. This device is intended for installation in doors or walls of electrical enclosures without compromising the integrity of the enclosure.	
<b>Power system</b>	
Voltage	Any range
<b>Lens</b>	
Waveband	Broadband IR: short-, mid-, and longwave
Visible light spectrum	Yes
<b>Certifications</b>	
Certifications	UL, IP67, NEMA Type 4/12, CSA
<b>Physical data</b>	
Weight	0.5 kg (1 lb.)
Dimensions (H x W x L)	26.9 mm x 99 mm x 107 mm (1.05" x 3.89" x 4.22")
Material	Optics: CaF <sub>2</sub> (calcium fluoride crystal). Body: stainless steel AISI 316. Hardware: steel
Color	Metallic silver
<b>Shipping information</b>	
Packaging type	Color box
Packaging contents	<ul style="list-style-type: none"> <li>IR window</li> <li>Case</li> <li>Mounting instructions</li> <li>Additional safety screw</li> </ul>
Unit weight	0.54 kg (1.2 lb)
Each dimensions (H x W x L)	38.1 mm x 107.95 mm x 127 mm (1.5" x 4.25" x 5")
EAN-13	4743254001510
UPC-12	845188007584
Country of origin	Estonia
Tariff Code	9027.90.5450



---

**P/N: 19250-200**

© 2015, FLIR Systems, Inc.  
#19250-200; r. 23306; en-US

Technical support	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>

**Supplies and accessories**

## P/N: 19251-200

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 19251-200  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Part name	IRW-3S
Material number	19251-200
Part description	Stainless steel IR window, 3" diameter
This device is a viewport that consist of a crystal "glass" window mounted in an aluminum frame. The glass is specially formulated to allow transmission of infrared (IR) light to allow use of IR thermal sensing equipment without opening the enclosure. This device is intended for installation in doors or walls of electrical enclosures without compromising the integrity of the enclosure.	
<b>Power system</b>	
Voltage	Any range
<b>Environmental</b>	
Environment	Indoor/outdoor type 4/12
Operating temperature range	Maximum: 260°C (500°F)
Storage temperature range	Optics, maximum: 1357°C (2474°F)
<b>Certifications</b>	
Certifications	UL, IP67, NEMA Type 4/12, CSA
<b>Physical data</b>	
Weight:	0.7 kg (1.55 lb.)
Dimensions (H x W x L)	26.9 mm x 99 mm x 107 mm (1.05" x 3.89" x 4.22")
Material	Optics: CaF <sub>2</sub> (calcium fluoride crystal). Body: stainless steel AISI 316. Hardware: steel
Color	Metallic silver
<b>Lens</b>	
Waveband	Broadband IR: short-, mid-, and longwave
Visible light spectrum	Yes
<b>Shipping information</b>	
Packaging type	Color box
Packaging contents	<ul style="list-style-type: none"> <li>IR window</li> <li>Case</li> <li>Mounting instruction</li> <li>Additional safety screw</li> </ul>
Unit weight	0.77 kg ( 1.7 lb.)





## SS IR window 3"

### P/N: 19251-200

© 2015, FLIR Systems, Inc.  
#19251-200; r. 23306; en-US

Shipping information	
Unit dimensions (H × W × L)	38.1 mm × 127 mm × 139.7 mm (1.5" × 5" × 5.5")
EAN-13	4743254001527
UPC-12	845188007591
Country of origin	Estonia
Tariff code	9027.90.5450
Technical support	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>

### Supplies and accessories

## P/N: 19252-200

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 19252-200  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Part name	IRW-4S
Material number	19252-200
Part description	Stainless steel IR window, 4" diameter
This device is a viewport that consist of a crystal "glass" window mounted in an aluminum frame. The glass is specially formulated to allow transmission of infrared (IR) light to allow use of IR thermal sensing equipment without opening the enclosure. This device is intended for installation in doors or walls of electrical enclosures without compromising the integrity of the enclosure.	
<b>Power system</b>	
Voltage	Any range
<b>Environmental</b>	
Environment	Indoor/outdoor type 4/12
Operating temperature range	Maximum: 260°C (500°F)
Storage temperature range	Optics, maximum: 1357°C (2474°F)
<b>Certifications</b>	
Certifications	UL, IP67, NEMA Type 4/12, CSA
<b>Physical data</b>	
Weight:	1.18 kg (2.6 lb.)
Dimensions (H × W × L)	26.9 mm × 99 mm × 107 mm (1.05" × 3.89" × 4.22")
Material	Optics: CaF <sub>2</sub> (calcium fluoride crystal). Body: stainless steel AISI 316. Hardware: steel
Color	Metallic silver
<b>Lens</b>	
Waveband	Broadband IR: short-, mid-, and longwave
Visible light spectrum	Yes
<b>Shipping information</b>	
Packaging type	Color box
Packaging contents	<ul style="list-style-type: none"> <li>IR window</li> <li>Case</li> <li>Mounting instruction</li> <li>Additional safety screw</li> </ul>
Unit weight	1.32 kg ( 2.9 lb.)
Unit dimensions (H × W × L)	38.1 mm × 165.1 mm × 177.8 mm ( 1.5" × 6.5" × 7")
EAN-13	4743254001534
UPC-12	845188007607



## SS IR window 4"

**P/N: 19252-200**

© 2015, FLIR Systems, Inc.  
#19252-200; r. 23306; en-US

Shipping information	
Country of origin	Estonia
Tariff code	9027.90.5450
Technical support	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>

### Supplies and accessories

## P/N: 1196683

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1196683  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This close-up optic attaches to the standard 24° lens and provides resolution of very small targets.	
Imaging and optical data	
Field of view (FOV)	32 × 24 mm (1.26 × 0.94 in.)
Magnifying factor	0.5×
Minimum focus distance	60.3 mm (2.36 in.)
Focal length	76.3 mm (3.0 in.)
Spatial resolution (IFOV)	50 μm
F-number	1.1
Physical data	
Weight	131 g
Size (L × D)	28.6 mm (1.12 in.) × 81.0 (3.19 in)
Shipping information	
Packaging, type	Cardboard box
Packaging, weight	0.415 kg (0.91 lb.)
Packaging, size	172 × 131 × 133 mm (6.8 × 5.2 × 5.2 in.)
EAN-13	7332558005750
UPC-12	845188005962
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: T197188

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197188  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The 12° lens is a popular lens accessory and provides 2× magnification compared to the standard lens. Ideal for small or distant targets such as overhead power lines.

### Imaging and optical data

Field of view (FOV)	12° × 9°
Minimum focus distance	1.2 m (3.9 ft.)
Focal length	76 mm (3.0 in.)
Spatial resolution (IFOV)	0.33 mrad
F-number	1.1

### Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"><li>• Lens</li><li>• Lens case</li></ul>
Packaging, weight	1.10 kg (2.4 lb.)
Packaging, size	174 × 133 × 133 mm (6.9 × 5.2 × 5.2 in.)
EAN-13	7332558003725
UPC-12	845188003944
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: T197190

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197190  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The 7° lens is a popular lens accessory and provides 3.5× magnification compared to the standard lens. Ideal for small or distant targets such as overhead power lines.

### Imaging and optical data

Field of view (FOV)	7° × 5.3°
Minimum focus distance	3.0 m (9.8 ft.)
Focal length	131 mm (5.2 in.)
Spatial resolution (IFOV)	0.19 mrad
F-number	1.1

### Physical data

Weight	1.50 kg (3.30 lb.), Support 0.45 kg (0.99 lb.)
Size (L × D)	168.2 mm (6.62 in.) × 146.0 mm (5.75 in.)

### Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"><li>• Lens</li><li>• Lens case</li><li>• Mounting support</li></ul>
Packaging, weight	2.685 kg (5.9 lb.)
Packaging, size	355 × 256 × 260 mm (14.0 × 10.1 × 10.2 in.)
EAN-13	7332558003732
UPC-12	845188003951
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: T197189

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197189  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This wide angle lens has a field of view almost double that of the standard 24° lens. Perfect for wide or tall targets or when working in crowded spaces.

### Imaging and optical data

Field of view (FOV)	45° × 34°
Minimum focus distance	0.2 m (0.7 ft.)
Focal length	19 mm (0.75 in.)
Spatial resolution (IFOV)	1.3 mrad
F-number	1.1

### Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"><li>• Lens</li><li>• Lens case</li></ul>
Packaging, weight	0.818 kg (1.80 lb.)
Packaging, size	174 × 133 × 133 mm (6.9 × 5.2 × 5.2 in.)
EAN-13	7332558003749
UPC-12	845188003968
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: T197187

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197187  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
The standard 24° lens is suitable for the majority of applications.	
Imaging and optical data	
Field of view (FOV)	24° × 18°
Minimum focus distance	0.3 m (1.0 ft.)
Focal length	38 mm (1.5 in.)
Spatial resolution (IFOV)	0.65 mrad
F-number	1.1
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"><li>• Lens</li><li>• Lens case</li></ul>
Packaging, weight	0.61 kg (1.34 lb.)
Packaging, size	174 × 133 × 133 mm (6.9 × 5.2 × 5.2 in.)
EAN-13	7332558003756
UPC-12	845188003975
Country of origin	Sweden

### Compatible with the following products

- N/A



## P/N: T197341

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197341  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
For R&D usage or development purposes. As an example looking at PCB's or small electronic components.	
Imaging and optical data	
Field of view (FOV)	16 × 12 mm (0.63 × 0.47 in.)
Magnifying factor	1x
Working distance	18 mm (0.71 in.)
Depth of field	±0.13 mm
Spatial resolution (IFOV)	25 µm
F-number	1.1
Focus	Fixed
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Lens</li> <li>• Lens case</li> </ul>
Packaging, weight	0.872 kg (1.9 lb.)
Packaging, size	172 × 131 × 133 mm (6.8 × 5.2 × 5.2 in.)
EAN-13	7332558005941
UPC-12	845188006136
Country of origin	Sweden

### Compatible with the following products

- N/A

### P/N: T197343

#### Copyright

© 2015, FLIR Systems, Inc.

All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

#### Document identity

Publ. No.: T197343

Commit: 23380

Language: en-US

Modified: 2015-02-24 14:12

Formatted: 2015-05-12

#### Corporate Headquarters

FLIR Systems, Inc.

27700 SW Parkway Ave.

Wilsonville, OR 97070

USA

Telephone: +1-503-498-3547

#### Website

<http://www.flir.com>

#### Customer support

<http://support.flir.com>

#### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Protective window for the 24° lens. The window is made of monocrystalline fluoride.	
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"><li>• Lens</li><li>• Lens case</li></ul>
Packaging, weight	0.525 kg (1.16 lb.)
Packaging, size	174 × 133 × 133 mm (6.9 × 5.2 × 5.2 in.)
EAN-13	7332558003763
UPC-12	845188003982
Country of origin	Sweden

#### Compatible with the following products

- N/A

## P/N: 1196745

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1196745  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

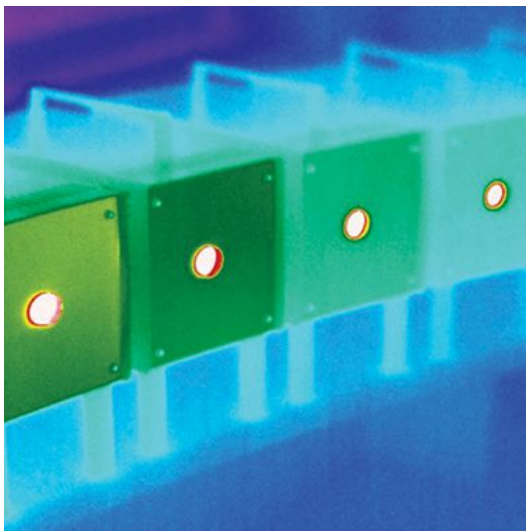
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

For high temperature applications the camera can be calibrated for high temperature ranges.

### Measurement

Optional object temperature range

Up to +2000°C (+3632°F)

### Compatible with the following products

- N/A

## P/N: 1196744

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1196744  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

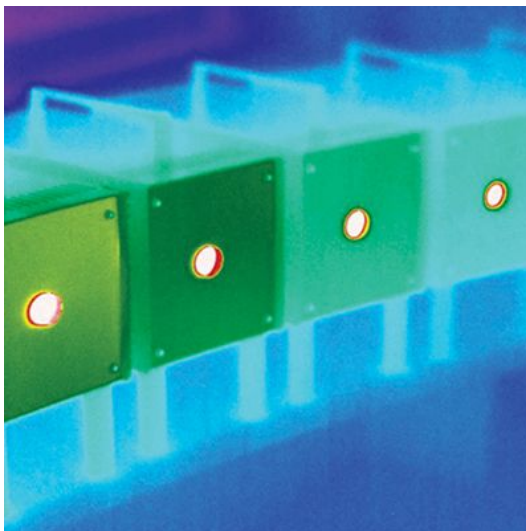
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

For high temperature applications the camera can be calibrated for high temperature ranges.

### Measurement

Optional object temperature range

Up to +1500°C (+2732°F)

### Compatible with the following products

- N/A

## P/N: T197692

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197692  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Stand-alone 2-bay battery charger, including power supply with multi plugs.	
Note: This product replaces T197563 and 1196210EU/UK/US	
Power system	
AC operation	100–240 VAC, 50/60 Hz, 12 VDC out
Power	3000 mA at 12 VDC
Physical data	
Battery charger size (L × W × H)	158 × 122 × 25 mm (6.2 × 4.8 × 1.0 in.)
Cable length	1.98 m (6.5 ft.)
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Stand-alone 2-bay battery charger</li> <li>Power supply including cable</li> <li>EU plug</li> <li>UK plug</li> <li>US plug</li> <li>AU plug</li> </ul>
Packaging, weight	0.60 kg (1.3 lb.)
Packaging, size	243 × 165 × 82 mm (9.6 × 6.5 × 3.2 in.)
EAN-13	7332558003787
UPC-12	845188004002
Country of origin	Sweden

### Compatible with the following products

- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens



---

**P/N: T197692**

© 2015, FLIR Systems, Inc.  
#T197692; r. 23306; en-US

- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

## P/N: T910814

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T910814  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
FLIR P/B/SC6xx and FLIR GF3xx series:	
Power supply, including multiple plugs, to charge the battery when it is inside or outside of the camera.	
FLIR T6xx and FLIR Exx series:	
Power supply, including multiple plugs, to charge the battery when it is inside the camera or in the battery charger.	
Power system	
AC operation	100–240 VAC, 50/60 Hz, 12 VDC out
Power	3000 mA at 12 VDC
Physical data	
Cable length	1.98 m (6.5 ft.)
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Power supply including cable</li> <li>EU plug</li> <li>UK plug</li> <li>US plug</li> <li>AU plug</li> </ul>
Packaging, weight	0.324 kg (9.7 lb.)
Packaging, size	152 × 78 × 73 mm (6.0 × 3.1 × 2.9 in.)
EAN-13	7332558003794 4743254001763 (Estonia plant)
UPC-12	845188002145
Country of origin	Sweden

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)

**P/N: T910814**

© 2015, FLIR Systems, Inc.  
#T910814; r. 23306; en-US

- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)





Power supply, incl. multi plugs

---

**P/N: T910814**

© 2015, FLIR Systems, Inc.  
#T910814; r. 23306; en-US

- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: T198511

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198511  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
High capacity battery for the IR camera.	
Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	7.2 V
Battery capacity	4.4 Ah at +20°C (+68°F)
Battery note	Approximate lithium content: 3.0 g
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 95% capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
Environmental data	
Battery storage temperature range	-40°C to +70°C (-40°F to +158°F)
Physical data	
Battery weight	0.24 kg (0.52 lb.)
Size (L x W x H)	141 x 47 x 28 mm (5.5 x 1.8 x 1.1 in.)
Shipping information	
Packaging, type	Cardboard box
Packaging, weight	0.324 kg (0.7 lb.)
Packaging, size	183 x 136 x 63 mm (7.2 x 5.4 x 2.5 in.)
EAN-13	7332558004364
UPC-12	845188004347
Country of origin	Sweden

### Compatible with the following products

- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens



---

**P/N: T198511**

© 2015, FLIR Systems, Inc.  
#T198511; r. 23306; en-US

- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

## P/N: T911230ACC

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T911230ACC  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.

General description	
SD Card for data storage (e.g. images)	
Data communication interfaces	
Memory card, size	At least 4 GB
Physical data	
Weight	2 g (0.07 oz.)
Size (L x W x H)	32.0 x 24.0 x 2.1 mm (1.26 x 0.94 x 0.08 in.)
Shipping information	
Packaging, type	Cardboard box
List of contents	• SD Card
Packaging, weight	65 g (2.3 oz.)
Packaging, size	170 x 64 x 75 mm (6.69 x 2.52 x 2.95 in.)
EAN-13	7332558006221 4743254001503 (Estonia plant)
UPC-12	845188006570
Country of origin	Sweden

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)

**P/N: T911230ACC**

© 2015, FLIR Systems, Inc.  
#T911230ACC; r. 23306; en-US

- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

**P/N: 1910423**

**Copyright**

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

**Document identity**

Publ. No.: 1910423  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

**Corporate Headquarters**

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

**Website**

<http://www.flir.com>

**Customer support**

<http://support.flir.com>

**Disclaimer**

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This cable is used to connect the infrared camera with a computer, using the USB protocol.	
Physical data	
Weight	60 g (2.1 oz.)
Cable length	1.8 m (5.9 ft.)
Connector	Standard USB-A to USB Mini-B
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558003428
UPC-12	845188002176
Country of origin	Sweden

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)

**P/N: 1910423**

© 2015, FLIR Systems, Inc.  
#1910423; r. 23306; en-US

- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40



---

**P/N: 1910423**

© 2015, FLIR Systems, Inc.  
#1910423; r. 23306; en-US

- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72201-0106; FLIR K45
- 72201-0206; FLIR K55



## P/N: T198509

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198509  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This cable is used to power the infrared camera from the cigarette lighter socket in a car.	
Note: This is the same product as p/n 1196497.	
Physical data	
Cable length	1.2 m (3.9 ft).
Shipping information	
Packaging, type	Cardboard box
Packaging, weight	0.125 kg (0.28 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558004340 4743254001435 (Estonia plant)
UPC-12	845188004361
Country of origin	Sweden

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)

**P/N: T198509**

© 2015, FLIR Systems, Inc.  
#T198509; r. 23306; en-US

- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72201-0106; FLIR K45
- 72201-0206; FLIR K55

## P/N: 1910484ACC

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1910484ACC  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This cable is used to transfer video signals from the infrared camera to an external monitor, or to a computer featuring an internal video card.

### Physical data

Weight	60 g (2.1 oz.)
Cable length	2.0 m (6.6 ft.)
Connector	RCA to RCA

### Shipping information

Packaging, type	Cardboard box
Packaging, weight	163 g (5.7 oz.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558006252
UPC-12	845188006600
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: 1910483ACC

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1910483ACC  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This cable is used to connect the infrared camera with a computer, using the FireWire protocol.	
Physical data	
Weight	128 g (4.5 oz.)
Cable length	2.0 m (6.6 ft.)
Connector	FireWire 4-pin to 6-pin
Shipping information	
Packaging, type	Cardboard box
Packaging, weight	156 g (5.5 oz.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558006238
UPC-12	845188006587
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: 1910482ACC

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1910482ACC  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This cable is used to connect the infrared camera with a computer, using the FireWire protocol.	
Physical data	
Weight	157 g (5.5 oz.)
Cable length	2.0 m (6.6 ft.)
Connector	FireWire 6-pin to 6-pin
Shipping information	
Packaging, type	Cardboard box
Packaging, weight	243 g (8.6 oz.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558006245
UPC-12	845188006594
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: T197262

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197262  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Hard transport case for FLIR B/P/SC6XX	
Physical data	
Weight	3.5 kg (7.7 lb.)
Size (L x W x H)	495 x 387 x 194 mm (19.5 x 15.2 x 7.6 in.)
Color	Black
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009666
UPC-12	845188010249
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: T197921

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197921  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

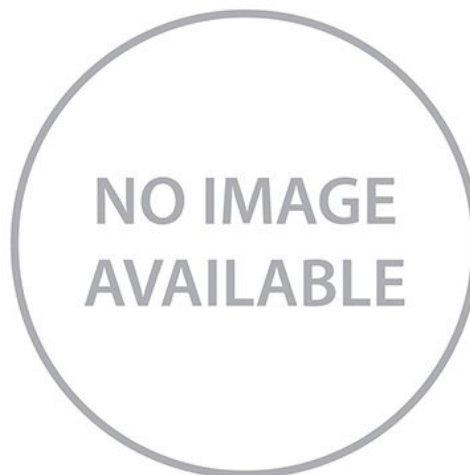
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This camera option adds more functionality to the FireWire port. The FireWire port can now be used to transfer real-time, full dynamic IR video to a PC for data capture and analysis.	
This option for P/B6XX shall primarily be sold with FLIR QuickPlot for the predictive maintenance and building market, however it is also compatible with FLIR ResearchIR.	
Key features:	
<ul style="list-style-type: none"><li>Real time radiometric data streaming to PC using FireWire</li><li>Supports Windowing (with FLIR ResearchIR)</li></ul>	
Video streaming	
Radiometric IR video streaming	Real-time full dynamic to PC using FireWire: <ul style="list-style-type: none"><li>- 9 Hz using FLIR QuickPlot</li><li>- 30 Hz or 60/120 Hz (with windowing) using FLIR ResearchIR</li></ul>
Shipping information	
List of contents	<ul style="list-style-type: none"><li>Option for P/B6XX: Radiometric IR video streaming using FireWire</li></ul>
EAN-13	7332558009758
UPC-12	845188010294
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: T198508

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198508  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Standard headset with 3.5 mm plug	
Data communication interfaces	
Audio	Headset including microphone
Audio, connector type	4-pole 3.5 mm jack
Shipping information	
Packaging, type	Cardboard box
List of contents	• Headset
Packaging, weight	0.115 kg (0.25 lb.)
Packaging, size	183 × 136 × 63 mm (7.2 × 5.4 × 2.5 in.)
EAN-13	7332558004357
UPC-12	845188004354
Country of origin	Sweden

### Compatible with the following products

- N/A



## P/N: T951387

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T951387  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Wi-Fi USB adapter for wireless connection between the infrared camera and external equipment.	
NOTE: Only for use in markets accepting CE and FCC regulations for wireless equipment.	
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"><li>Wi-Fi USB micro adapter</li></ul>
Packaging, weight	0.062 kg (0.14 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005859
UPC-12	845188006068
Country of origin	Sweden

### Compatible with the following products

- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

## P/N: T197771ACC

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197771ACC  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Headset with Bluetooth for wireless connection with the infrared camera.	
Data communication interfaces	
Bluetooth	Connection to the infrared camera
Audio	Headset including microphone
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Headset</li> <li>Ear clip</li> <li>Charger</li> <li>Multi plugs</li> <li>USB cable Std A to Mini-B</li> </ul>
Packaging, weight	278 g (9.8 oz.)
Packaging, size	183 × 136 × 63 mm (7.2 × 5.35 × 2.48 in.)
EAN-13	7332558006337
UPC-12	845188006686
Country of origin	Sweden

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)

**P/N: T197771ACC**

© 2015, FLIR Systems, Inc.  
#T197771ACC; r. 23306; en-US

- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: T951235ACC

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T951235ACC  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Bluetooth USB micro adapter for wireless connection between the infrared camera and external Bluetooth equipment.	
Data communication interfaces	
Bluetooth	USB-A
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"><li>Bluetooth USB micro adapter</li></ul>
Packaging, weight	65 g (2.3 oz.)
Packaging, size	170 × 64 × 75 mm (6.69 × 2.52 × 2.95 in.)
EAN-13	7332558006283
UPC-12	845188006631
Country of origin	Sweden

### Compatible with the following products

- N/A

**P/N: T198586**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: T198586  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description
FLIR Reporter Professional is a powerful software for creating compelling and professional, fully customized, easy-to-interpret maintenance reports.
Professional Report Wizard guides you step-by-step in combining all IR inspection data - infrared and visual images, temperature measurements, and text notes – into a professional, easy-to-interpret maintenance report.
Key features:
<ul style="list-style-type: none"> <li>• Flexible report page design and layout for customized reports</li> <li>• Use quick insert function to easily create custom report pages</li> <li>• Fully integrated with standard Microsoft Word</li> <li>• Generates reports in standard MS Office format and PDF-format</li> <li>• Powerful temperature analysis</li> <li>• Triple Fusion Picture-in-Picture (movable, sizable, scalable)</li> <li>• Rapid report manager supporting automatic report generation by drag-and-drop</li> <li>• Support for MSX (Multi-Spectral Dynamic Imaging) images</li> <li>• Support for sketch images in both IR and visual with on/off toggling</li> <li>• Support for same FOV ("Field of View Match")</li> <li>• Grid settings</li> <li>• Trending functionality</li> <li>• Automatic link to Google™ Maps for images with GPS coordinates</li> <li>• Automatic summary table for the report</li> <li>• Fine tune images and make full temperature analysis directly in Microsoft Word</li> <li>• Spell check</li> <li>• Create your own formulas including measurement values from images</li> <li>• Play radiometric sequences directly in the report</li> <li>• Search functionality to quickly finding images for your report</li> <li>• Panorama tool for combining several images to a larger image</li> <li>• Support for GF series IR images</li> <li>• Auto Update function</li> <li>• Office 2003 (32-bit), Office 2007 (32-bit) and Office 2010 (32-bit)</li> <li>• Windows 7 (32 and 64-bit), Windows Vista (32 and 64-bit)</li> <li>• Support for METERLiNK™ data</li> <li>• *.docx compatibility</li> </ul>
Download
Download your copy of FLIR Reporter Professional here:
<a href="http://support.flir.com/reporter">http://support.flir.com/reporter</a>

**P/N: T198586**

© 2015, FLIR Systems, Inc.  
#T198586; r. 23306; en-US

Release notes	
Version	9.2
New features	<ul style="list-style-type: none"> <li>— News in 9.2: —</li> <li>Option to hide Zoom Viewer</li> <li>Option to extract Visual image from MSI/Fusion image.</li> <li>Support for the new FLIR Ex and Exx series cameras.</li> <li>Support for multispectral images.</li> <li>Support for auto-oriented images.</li> <li>Various bug fixes.</li> </ul>
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>FLIR Reporter Professional scratchcard</li> </ul>
Packaging, weight	0.135 kg (0.3 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005286 4743254001893 (Estonia plant)
UPC-12	845188005498
Country of origin	Sweden
System requirements	
Operating system	<ul style="list-style-type: none"> <li>Windows XP, 32-bit</li> <li>Windows Vista, 32-bit</li> <li>Windows Vista, 64-bit</li> <li>Windows 7, 32-bit</li> <li>Windows 7, 64-bit</li> </ul>
Software requirements	<ul style="list-style-type: none"> <li>Office 2007 (32-bit)</li> <li>Office 2010 (32-bit)</li> </ul>

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)

**P/N: T198586**

© 2015, FLIR Systems, Inc.  
#T198586; r. 23306; en-US

- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: T198586

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198586  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description
FLIR Reporter Professional is a powerful software for creating compelling and professional, fully customized, easy-to-interpret maintenance reports.
Professional Report Wizard guides you step-by-step in combining all IR inspection data - infrared and visual images, temperature measurements, and text notes – into a professional, easy-to-interpret maintenance report.
Key features:
<ul style="list-style-type: none"> <li>• Flexible report page design and layout for customized reports</li> <li>• Use quick insert function to easily create custom report pages</li> <li>• Fully integrated with standard Microsoft Word</li> <li>• Generates reports in standard MS Office format and PDF-format</li> <li>• Powerful temperature analysis</li> <li>• Triple Fusion Picture-in-Picture (movable, sizable, scalable)</li> <li>• Rapid report manager supporting automatic report generation by drag-and-drop</li> <li>• Support for MSX (Multi-Spectral Dynamic Imaging) images</li> <li>• Support for sketch images in both IR and visual with on/off toggling</li> <li>• Support for same FOV ("Field of View Match")</li> <li>• Grid settings</li> <li>• Trending functionality</li> <li>• Automatic link to Google™ Maps for images with GPS coordinates</li> <li>• Automatic summary table for the report</li> <li>• Fine tune images and make full temperature analysis directly in Microsoft Word</li> <li>• Spell check</li> <li>• Create your own formulas including measurement values from images</li> <li>• Play radiometric sequences directly in the report</li> <li>• Search functionality to quickly finding images for your report</li> <li>• Panorama tool for combining several images to a larger image</li> <li>• Support for GF series IR images</li> <li>• Auto Update function</li> <li>• Office 2003 (32-bit), Office 2007 (32-bit) and Office 2010 (32-bit)</li> <li>• Windows 7 (32 and 64-bit), Windows Vista (32 and 64-bit)</li> <li>• Support for METERLiNK™ data</li> <li>• *.docx compatibility</li> </ul>
Download
Download your copy of FLIR Reporter Professional here:
<a href="http://support.flir.com/reporter">http://support.flir.com/reporter</a>



**P/N: T198586**

© 2015, FLIR Systems, Inc.  
#T198586; r. 23306; en-US

Release notes	
Version	9.2
New features	<ul style="list-style-type: none"> <li>— News in 9.2: —</li> <li>Option to hide Zoom Viewer</li> <li>Option to extract Visual image from MSI/Fusion image.</li> <li>Support for the new FLIR Ex and Exx series cameras.</li> <li>Support for multispectral images.</li> <li>Support for auto-oriented images.</li> <li>Various bug fixes.</li> </ul>
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>FLIR Reporter Professional scratchcard</li> </ul>
Packaging, weight	0.135 kg (0.3 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005286 4743254001893 (Estonia plant)
UPC-12	845188005498
Country of origin	Sweden
System requirements	
Operating system	<ul style="list-style-type: none"> <li>Windows XP, 32-bit</li> <li>Windows Vista, 32-bit</li> <li>Windows Vista, 64-bit</li> <li>Windows 7, 32-bit</li> <li>Windows 7, 64-bit</li> </ul>
Software requirements	<ul style="list-style-type: none"> <li>Office 2007 (32-bit)</li> <li>Office 2010 (32-bit)</li> </ul>

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)

**P/N: T198586**

© 2015, FLIR Systems, Inc.  
#T198586; r. 23306; en-US

- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: T198584

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198584  
Commit: 25122  
Language: en-US  
Modified: 2015-04-29 09:51  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

FLIR Tools is a software suite specifically designed to provide an easy way to update your camera and create inspection reports.

#### Key features:

- Report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR).
- Manual IR/Visual Image Grouping
- Import images from your camera to your computer.
- Apply filters when searching for images.
- Search all text in images and text annotations.
- Store the five latest search criteria's.
- Lay out, move, and resize measurement tools on any infrared image.
- Create PDF imagesheets of any images of your choice.
- Add headers, footers, and logos to imagesheets.
- Create PDF reports for images of your choice.
- Add headers, footers, and logos to reports.
- Report editor (report page preview and snap to grid).
- Sort function (by date, groups sorted by path, and groups sorted by date).
- Browse and purchase infrared cameras, software, and accessories in the webshop.
- Software localized to 21 languages.
- Support for MSX (Multi-Spectral Dynamic Imaging ) Images
- Support for Sketch Images on both IR and Visual with toggling ON/OFF feature.
- Support for Same FOV ( Field of View Match )
- Display of Compass Information in Edit and in Report.
- Display of GPS Information in Edit and in Report.
- Microsoft Windows 7 (32- and 64-bit) and Windows 8 (32- and 64-bit)
- Camera update (applies to FLIR Ex, Kxx, Exx and T6xx series only).

### Download

This software is a freeware. To download, click the following link:

<http://support.flir.com/tools>

### Release notes

Version	5.2
New features in version 5.2	<ul style="list-style-type: none"> <li>• Support for auto-adjusting a region.</li> <li>• Support for zoom.</li> <li>• Various bug fixes.</li> </ul>
New features in version 5.1	<ul style="list-style-type: none"> <li>• Improved import performance.</li> <li>• Added support for video recording settings for FLIR Kxx series.</li> <li>• Added support for importing video files from FLIR Kxx series.</li> <li>• Added support for FLIR C2 camera.</li> <li>• Various bug fixes.</li> </ul>

**P/N: T198584**

© 2015, FLIR Systems, Inc.  
#T198584; r. 25122; en-US

Release notes	
New features in version 5.0	<ul style="list-style-type: none"> <li>Local object parameters for measurement tools.</li> <li>Save a report in-process with the ability to edit at a later time.</li> <li>Pull-down menus for text annotations.</li> <li>Variable playback speed for recordings.</li> <li>Show or hide min./max./avg. temperature, and hot/cold markers, for areas and lines.</li> <li>Smoother display for low-resolution images.</li> <li>UltraMax image enhancement.</li> <li>Dropping support for Windows XP.</li> <li>Various bug fixes.</li> </ul>
New features in version 4.1	<ul style="list-style-type: none"> <li>Previous/next in Edit mode.</li> <li>Clone in the Library.</li> <li>Extract visual photo from a multispectral image.</li> <li>Import *.mp4, *.seq, and *.csq files from the camera.</li> <li>Playback/edit *.seq and *.csq files.</li> <li>Scale enhancement for the FLIR GF3xx series.</li> <li>Auto resize of thumbnails during importing for the FLIR T6xx series.</li> <li>Grouping/ungrouping now added.</li> <li>Various bug fixes.</li> </ul>
New features in version 4.0	<ul style="list-style-type: none"> <li>Support for the new FLIR Ex and Exx series cameras.</li> <li>Interactive quick start guide when connecting a FLIR camera.</li> <li>Improved library view.</li> <li>Support for multispectral images.</li> <li>Support for auto-oriented images.</li> <li>Various bug fixes.</li> </ul>
New features in version 3.1	<ul style="list-style-type: none"> <li>Support for FLIR K series cameras.</li> <li>Interactive quick start guide when connecting a FLIR K series camera.</li> <li>Live image streaming from FLIR K series cameras.</li> <li>PC-side configuration of FLIR K series cameras.</li> <li>New report templates for DC images only added.</li> <li>Various bug fixes.</li> </ul>
New features in version 3.0	<ul style="list-style-type: none"> <li>Add folder to library.</li> <li>Support for isotherms and color alarms</li> <li>Image description for both IR and DC.</li> <li>Export functionality (*.avi, *.csv).</li> <li>Microsoft Windows 8 (32- and 64-bit)</li> <li>New web installer</li> <li>Various bug fixes.</li> </ul>
New features in version 2.2	<ul style="list-style-type: none"> <li>Camera tab: <ul style="list-style-type: none"> <li>Logging feature in Camera Tab</li> <li>Recording and playback of SEQ files.</li> </ul> </li> <li>Various bug fixes.</li> </ul>
New features in version 2.1	<ul style="list-style-type: none"> <li>New Text Comment Template Tab: <ul style="list-style-type: none"> <li>Create, Edit and Transfer templates to and from any FLIR Camera.</li> <li>Import and Export of Templates.</li> </ul> </li> <li>Support for MSX (Multi-Spectral Dynamic Imaging ) Images</li> <li>Support for Sketch Images on both IR and Visual with toggling ON/OFF feature.</li> <li>Support for Same FOV ( Field of View Match )</li> <li>Display of Compass Information in Edit and in Report.</li> <li>Display of GPS Information in Edit and in Report. <ul style="list-style-type: none"> <li>Direct Link to Google Maps for GPS Tagged images from Report.</li> </ul> </li> <li>Support for 3x5 and 6x5 A-series cameras</li> </ul>

**P/N: T198584**

© 2015, FLIR Systems, Inc.  
#T198584; r. 25122; en-US

Release notes	
New features in version 2.0	<ul style="list-style-type: none"> <li>Camera tab: <ul style="list-style-type: none"> <li>Camera connection with FLIR UVC cameras.</li> <li>Measurement data analysis.</li> <li>Plotting.</li> <li>Snapshot saving with text annotation and plot.</li> </ul> </li> <li>Performance improvement for large reports: can now create reports and imagesheets of up to 200 pages.</li> <li>Various bug fixes.</li> </ul>
New features in version 1.3	<ul style="list-style-type: none"> <li>Import from ix series cameras.</li> <li>Add and remove a form from a group.</li> <li>Text comments are now saved in the infrared image.</li> <li>The indexing engine can create groups from IR, DC, and text annotations when indexing the paths in the watch folder.</li> <li>Arrow tool in the report toolbar.</li> <li>Reorder pages.</li> <li>Text annotations can now be edited in the report.</li> <li>New report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR).</li> <li>New sample images.</li> </ul>
New features in version 1.2 SP1	<ul style="list-style-type: none"> <li>Various bug fixes.</li> </ul>
New features in version 1.2	<ul style="list-style-type: none"> <li>Search function: <ul style="list-style-type: none"> <li>Store the five latest search criterias.</li> <li>Search in all texts in images and text annotations.</li> </ul> </li> <li>Sort function: <ul style="list-style-type: none"> <li>By date.</li> <li>Groups sorted by by path.</li> <li>Groups sorted by date.</li> </ul> </li> <li>Report editor: <ul style="list-style-type: none"> <li>Report page preview.</li> <li>Snap to grid.</li> <li>Various bug fixes.</li> </ul> </li> </ul>
New features in version 1.1 SP1	<ul style="list-style-type: none"> <li>Extension to the camera update functionality.</li> <li>Various bug fixes</li> </ul>
New features in version 1.1	<ul style="list-style-type: none"> <li>Software localized to 21 languages.</li> <li>Camera update. (Exx, T6xx)</li> <li>Option to rotate an infrared image in the infrared editor.</li> </ul>

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Digital download, or</li> <li>CD-ROM</li> </ul>
Packaging, weight	0.106 kg (0.23 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005279
UPC-12	845188005481
Country of origin	Sweden

System requirements	
Operating system	<ul style="list-style-type: none"> <li>Windows XP, 32-bit</li> <li>Windows Vista, 32-bit</li> <li>Windows 7, 32-bit</li> <li>Windows 7, 64-bit</li> <li>Windows 8, 32-bit</li> <li>Windows 8, 64-bit</li> </ul>

**P/N: T198584**

© 2015, FLIR Systems, Inc.  
#T198584; r. 25122; en-US

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm

**P/N: T198584**

© 2015, FLIR Systems, Inc.  
#T198584; r. 25122; en-US

- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

**P/N: T198584**

© 2015, FLIR Systems, Inc.  
#T198584; r. 25122; en-US

- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72001-0101; FLIR C2



**P/N: T198583**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: T198583  
Commit: 25121  
Language: en-US  
Modified: 2015-04-29 09:50  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

Compared to FLIR Tools, FLIR Tools+ has the following features:

- Radiometric Panorama incl. MSX
- Radiometric IR Video Recording
- Advanced Reporting

FLIR Tools/Tools+ is a software suite specifically designed to provide an easy way to update your camera and create inspection reports.

FLIR Tools+ main features:

- Manual IR/Visual Image Grouping
- Radiometric Panorama incl. MSX
- Radiometric IR Video Recording
- Advanced Reporting - Microsoft Office 2007 (32bit), and 2010 (32bit) support
- Report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR).
- Import images from your camera to your computer.
- Apply filters when searching for images.
- Search all text in images and text annotations.
- Store the five latest search criteria's.
- Lay out, move, and resize measurement tools on any infrared image.
- Create PDF imagesheets of any images of your choice.
- Add headers, footers, and logos to imagesheets.
- Create PDF reports for images of your choice.
- Add headers, footers, and logos to reports.
- Report editor (report page preview and snap to grid).
- Sort function (by date, groups sorted by path, and groups sorted by date).
- Browse and purchase infrared cameras, software, and accessories in the webshop.
- Software localized to 21 languages.
- Support for MSX (Multi-Spectral Dynamic Imaging ) Images
- Support for Sketch Images on both IR and Visual with toggling ON/OFF feature.
- Support for Same FOV ( Field of View Match )
- Display of Compass Information in Edit and in Report.
- Display of GPS Information in Edit and in Report.
- Microsoft Windows 7 (32- and 64-bit) and Windows 8 (32- and 64-bit)
- Camera update (applies to FLIR Ex, Kxx, Exx and T6xx series only).

## Download

Download a 30-day evaluation version here:

<http://support.flir.com/toolsplus>

## Release notes

Version	5.2
New features in version 5.2	<ul style="list-style-type: none"> <li>• Support for auto-adjusting a region.</li> <li>• Support for zoom.</li> <li>• Express Microsoft Word reporting (*.docx).</li> <li>• Various bug fixes.</li> </ul>

**P/N: T198583**

© 2015, FLIR Systems, Inc.  
#T198583; r. 25121; en-US

Release notes	
New features in version 5.1	<ul style="list-style-type: none"><li>• Improved import performance.</li><li>• Added support for video recording settings for FLIR Kxx series.</li><li>• Added support for importing video files from FLIR Kxx series.</li><li>• Added support for FLIR C2 camera.</li><li>• Various bug fixes.</li></ul>
New features in version 5.0	<ul style="list-style-type: none"><li>• Local object parameters for measurement tools.</li><li>• Save a report in-process with the ability to edit at a later time.</li><li>• Pull-down menus for text annotations.</li><li>• Variable playback speed for recordings.</li><li>• Show or hide min./max./avg. temperature, and hot/cold markers, for areas and lines.</li><li>• Smoother display for low-resolution images.</li><li>• UltraMax image enhancement.</li><li>• Dropping support for Windows XP.</li><li>• Various bug fixes.</li></ul>
New features in version 4.1	<ul style="list-style-type: none"><li>• Previous/next in Edit mode.</li><li>• Clone in the Library.</li><li>• Extract visual photo from a multispectral image.</li><li>• Import *.mp4, *.seq, and *.csq files from the camera.</li><li>• Playback/edit *.seq and *.csq files.</li><li>• Scale enhancement for the FLIR GF3xx series.</li><li>• Auto resize of thumbnails during importing for the FLIR T6xx series.</li><li>• Grouping/ungrouping now added.</li><li>• Various bug fixes.</li></ul>
New features in version 4.0	<ul style="list-style-type: none"><li>• Support for the new FLIR Ex and Exx series cameras.</li><li>• Interactive quick start guide when connecting a FLIR camera.</li><li>• Improved library view.</li><li>• Support for multispectral images.</li><li>• Support for auto-oriented images.</li><li>• Various bug fixes.</li></ul>
New features in version 3.1	<ul style="list-style-type: none"><li>• Support for FLIR K series cameras.</li><li>• Interactive quick start guide when connecting a FLIR K series camera.</li><li>• Live image streaming from FLIR K series cameras.</li><li>• PC-side configuration of FLIR K series cameras.</li><li>• New report templates for DC images only added.</li><li>• Various bug fixes.</li></ul>
New features in version 3.0	<ul style="list-style-type: none"><li>• Add folder to library.</li><li>• Support for isotherms and color alarms</li><li>• Image description for both IR and DC.</li><li>• Export functionality (*.avi, *.csv).</li><li>• Microsoft Windows 8 (32- and 64-bit)</li><li>• New web installer</li><li>• Radiometric panorama with MSX images.</li><li>• Advanced reports.</li><li>• Manual grouping/ungrouping of images.</li><li>• Various bug fixes.</li></ul>
New features in version 2.2	<ul style="list-style-type: none"><li>• Camera tab:<ul style="list-style-type: none"><li>• Logging feature in Camera Tab</li><li>• Recording and playback of SEQ files.</li></ul></li><li>• Various bug fixes.</li></ul>
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"><li>• FLIR Tools+ scratchcard</li></ul>
Packaging, weight	0.059 kg (0.13 lb.)

**P/N: T198583**

© 2015, FLIR Systems, Inc.  
#T198583; r. 25121; en-US

Shipping information	
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	73325585378 4743254001442 (Estonia plant)
UPC-12	845188005580
Country of origin	Sweden
System requirements	
Operating system	<ul style="list-style-type: none"> <li>Windows XP, 32-bit</li> <li>Windows Vista, 32-bit</li> <li>Windows 7, 32-bit</li> <li>Windows 7, 64-bit</li> <li>Windows 8, 32-bit</li> <li>Windows 8, 64-bit</li> </ul>
Software requirements	<ul style="list-style-type: none"> <li>Office 2007, 32-bit</li> <li>Office 2010, 32-bit</li> <li>Office 2013, 32-bit</li> </ul>

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)

**P/N: T198583**

© 2015, FLIR Systems, Inc.  
#T198583; r. 25121; en-US

- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens

**P/N: T198583**

© 2015, FLIR Systems, Inc.  
#T198583; r. 25121; en-US

- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 63901-0101; FLIR E4
- 63905-0501; FLIR E5
- 63902-0202; FLIR E6
- 63903-0303; FLIR E8

## P/N: DSW-10000

### Copyright

© 2015, FLIR Systems, Inc.

All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: DSW-10000

Commit: 24597

Language: en-US

Modified: 2015-04-09 13:38

Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.

27700 SW Parkway Ave.

Wilsonville, OR 97070

USA

Telephone: +1-503-498-3547

### Website

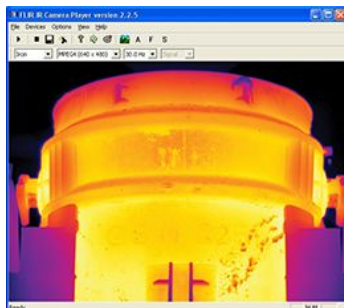
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

FLIR IR Camera Player is a PC-based remote control and viewer that you can use with cameras from FLIR Systems.

You can perform one or more of the following with FLIR IR Camera Player:

- Record a video stream from the camera.
- Save a frame from the video stream as a snapshot image (\*.bmp).
- Autofocus, focus far, and focus near.
- Autoadjust the camera image.
- Freeze the camera image.
- Save a camera image in the camera.
- Change Color palette.
- Add an image description and a text comment to an image.

You connect a camera in one of the following ways:

- Ethernet
- FireWire
- USB

### Download

This software is a freeware. To download, click the following link:

<http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=89>

### Release notes

Version	2.3.3
New features	<p>Main improvements in version 2.3.3:</p> <ul style="list-style-type: none"> <li>• Added latest device drivers (1.9.1.0).</li> <li>• Various bugfixes</li> </ul> <p>Main improvements in version 2.2.7:</p> <ul style="list-style-type: none"> <li>• Added support for FLIR Ax5 series.</li> </ul>

### System requirements

Operating system	<ul style="list-style-type: none"> <li>• Windows XP, 32-bit</li> <li>• Windows Vista, 32-bit/64-bit</li> <li>• Windows 7, 32-bit/64-bit</li> </ul>
------------------	--

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)

**P/N: DSW-10000**

© 2015, FLIR Systems, Inc.  
#DSW-10000; r. 24597; en-US

- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc

**P/N: DSW-10000**

© 2015, FLIR Systems, Inc.  
#DSW-10000; r. 24597; en-US

- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)





---

**P/N: DSW-10000**

© 2015, FLIR Systems, Inc.  
#DSW-10000; r. 24597; en-US

- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: APP-10002

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: APP-10002  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

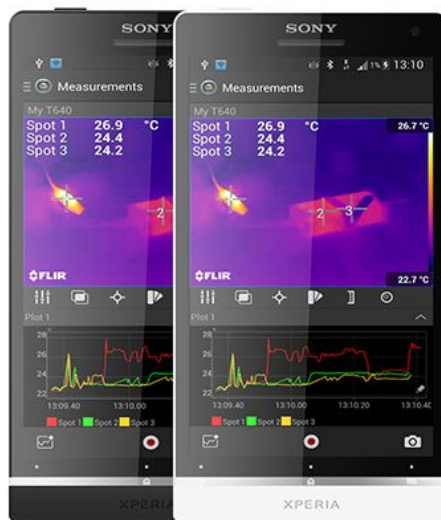
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

FLIR Tools Mobile is an intuitive Android app for analyzing, managing, and distributing infrared images.

#### Key features:

- Remote control
- MSX
- Images with sketch on DC and IR
- Images with field of view follow
- Editable text comments
- Emissivity table
- Import images from your Wi-Fi-enabled camera.
- Connect and stream infrared images from the camera.
- Connect and stream measurement data from FLIR Test & Measurement meters
- Lay out and move measurement tools on the image.
- Read out temperature measurements.
- Create and configure temporal plots based on results of measurement tools on the infrared image.
- Log measurement data and export it as a \*.csv file.
- Save a measurement scenario as a data snapshot.
- Zoom in on images.
- On the Android device, remotely take snapshots when a camera is connected.
- On the camera, take snapshots that will automatically be saved on the Android device.
- Delete images on the Android device.
- Display an image's GPS coordinates on Google Maps.
- Create and e-mail reports.
- Save images in the Android device photo library.
- Send images to FTP sites and other file-sharing services (Dropbox, Box.net, etc.).
- Display image information, e.g., object parameters, text comments, and file details.
- Play back voice comments.
- Change the level and span.
- Change general settings in the app.
- Change the palette.

### Download

The application can be downloaded from Android Market or Amazon Marketplace, see the link below.

<https://market.android.com/details?id=com.flir.viewer>

**P/N: APP-10002**

© 2015, FLIR Systems, Inc.  
#APP-10002; r. 24597; en-US

Release notes	
Version	3.4.0
New features	<p>Main improvements in version 3.4.0:</p> <ul style="list-style-type: none"> <li>• Support for *.csq files.</li> <li>• Various bug fixes.</li> </ul> <p>Main improvements in version 3.2.0:</p> <ul style="list-style-type: none"> <li>• Receive data logs from FLIR DM93.</li> <li>• Save or export data logs in new *.csv format.</li> <li>• Various bug fixes.</li> </ul> <p>Main improvements in version 3.1.0:</p> <ul style="list-style-type: none"> <li>• Added variable level of MSX alpha</li> <li>• Added Fusion Blending mode for images with possibility to adjust level</li> <li>• Stability fixes</li> <li>• Improved memory management</li> <li>• Modified internal handling of measurement results and displaying them.</li> </ul>
System requirements	
Operating system	<ul style="list-style-type: none"> <li>• Android 2.3 and later</li> </ul>

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)

**P/N: APP-10002**

© 2015, FLIR Systems, Inc.  
#APP-10002; r. 24597; en-US

- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: APP-10003

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: APP-10003  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

FLIR Tools Mobile lets professional thermographers use an iPad, iPhone, or iPod touch to see and capture live, streaming infrared video and stills from select FLIR cameras.

With FLIR Tools Mobile the camera can be stationed in one area and operated wirelessly from another – highly useful for IR inspections of energized equipment or performing IR surveys in hard-to-reach locations and harsh working environments. Streaming video and remote access also gives decision makers and others on your team a valuable opportunity to observe and collaborate in the thermal imaging process.

Using FLIR Tools Mobile, you can do one or more of the following:

- Import images from your infrared camera
- Lay out and move measurement tools on the image
- Read out temperature measurements
- Zoom in on images
- On the iPhone/iPad, remotely take snapshots when a camera is connected
- On the camera, take snapshots that will automatically be saved in the iPhone/iPad
- Delete any images on the iPhone/iPad
- Display an image's GPS coordinates on Google Maps
- Create and e-mail imagesheets
- Create and e-mail reports
- Print imagesheets and reports to any AirPrint-enabled printer
- Save images to iPhone/iPad photo library
- Send images to FTP sites and other file sharing services (Dropbox, Box.net, etc.)
- Display image information, such as object parameters, text comments, file information, etc.
- Play-back voice comments
- Change level and span
- Change general settings in the app
- Change palette

**P/N: APP-10003**

© 2015, FLIR Systems, Inc.  
#APP-10003; r. 24597; en-US

General description	
FLIR Tools Mobile lets you take control of the following features on selected cameras:	
<ul style="list-style-type: none"> <li>• Remote control of your FLIR camera.</li> <li>• Support for MSX (Multi-Spectral Dynamic Imaging) images.</li> <li>• Support for sketch images in both IR and visual with on/off toggling.</li> <li>• Support for same FOV ("Field of View Match").</li> <li>• Editable text comments.</li> <li>• Auto and manual focus</li> <li>• Level and span</li> <li>• Color palettes</li> <li>• Temperature measurement analytics</li> <li>• Spot</li> <li>• Area box</li> <li>• Circle</li> <li>• Line</li> <li>• Parameter settings</li> <li>• Emissivity</li> <li>• Reflected temperature</li> <li>• Relative humidity</li> <li>• Atmospheric temperature</li> <li>• IR and visible light image blending</li> <li>• Picture-in-picture</li> <li>• Thermal fusion</li> <li>• Image storage</li> <li>• MPEG 4 video</li> <li>• Radiometric JPEG stills</li> </ul>	
Download	
The application can be downloaded from App Store, see the link below.	
<a href="http://itunes.apple.com/app/flir-tools/id511247887?mt=8">http://itunes.apple.com/app/flir-tools/id511247887?mt=8</a>	
Release notes	
Version	1.5.0
New features	<p>Main improvements in version 1.5.0:</p> <ul style="list-style-type: none"> <li>• Updated for iOS7.</li> <li>• Improved Library.</li> </ul> <p>Main improvements in version 1.3.2:</p> <ul style="list-style-type: none"> <li>• Added remote viewer mode for T4xx and Exx series.</li> <li>• Improved support for anonymous FTP server.</li> <li>• Improved image import from photo gallery.</li> </ul> <p>Main improvements in version 1.3:</p> <ul style="list-style-type: none"> <li>• Support for fusion images.</li> <li>• Marking fusion images with the stacked icon in the library browser.</li> <li>• Switching image modes while editing fusion images.</li> <li>• Switch between fusion IR/DC and grouped images during preview.</li> <li>• Support for landscape and portrait images.</li> <li>• Image parameters can be modified only in edit mode.</li> <li>• Support for FLIR Exx-series cameras.</li> </ul>
System requirements	
Operating system	<ul style="list-style-type: none"> <li>• iOS 4.0 or later</li> </ul>
Hardware requirements	<ul style="list-style-type: none"> <li>• iPhone</li> <li>• iPad</li> <li>• iPod</li> </ul>

**Compatible with the following products**

- N/A

## P/N: APP-10004

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: APP-10004  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
FLIR Tools is a software specifically designed to provide an easy way to analyze infrared images and create inspection reports.	
Using FLIR Tools, you can do one or more of the following:	
<ul style="list-style-type: none"> <li>• Import images from your camera to your computer.</li> <li>• Search for images.</li> <li>• Lay out, move, and resize measurement tools on any infrared image.</li> <li>• Create PDF reports for images of your choice.</li> <li>• Add headers, footers, and logos to reports.</li> <li>• Create new report templates.</li> </ul>	
FLIR Tools lets you take control of the following features on selected cameras:	
<ul style="list-style-type: none"> <li>• Connect an infrared camera to FLIR Tools and display its live image stream.</li> <li>• When the camera is connected, lay out measurement tools, change parameters, create plots, etc.</li> </ul>	
Download	
The application can be downloaded from Mac App Store, see the link below.	
<a href="https://itunes.apple.com/app/flir-tools/id579348845?mt=12">https://itunes.apple.com/app/flir-tools/id579348845?mt=12</a>	
Release notes	
Version	2.1
New features	<p>Main improvements in version 2.1:</p> <ul style="list-style-type: none"> <li>• Support for thermal blending.</li> <li>• Support for groups and multispectral images.</li> <li>• Improved stability.</li> </ul> <p>Main improvements in version 2.0:</p> <ul style="list-style-type: none"> <li>• Connect an infrared camera to FLIR Tools and display its live image stream.</li> <li>• When the camera is connected, lay out measurement tools, change parameters, create plots, etc.</li> <li>• Create new report templates.</li> <li>• Various bug fixes.</li> </ul>
System requirements	
Operating system	<ul style="list-style-type: none"> <li>• OS X 10.7 or later,</li> </ul>
Hardware requirements	<ul style="list-style-type: none"> <li>• MacOS</li> </ul>

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)

**P/N: APP-10004**

© 2015, FLIR Systems, Inc.  
#APP-10004; r. 24597; en-US

- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)



**P/N: T199811**

**Copyright**

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

**Document identity**

Publ. No.: T199811  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

**Corporate Headquarters**

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

**Website**

<http://www.flir.com>

**Customer support**

<http://support.flir.com>

**Disclaimer**

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



**General description**

The Extended Warranty Package covers parts and labour for your IR camera, consumables not included.

FLIR Systems warrants its products to be free from defects caused by faulty material or poor workmanship, for a period specified above. **NO PRODUCT IS WARRANTED TO BE MERCHANTABLE OR FIT FOR ANY PARTICULAR USE OR APPLICATION.** The warranty is void if the buyer damages the item due to misuse, abuse, modification, processing, or integration with other items. FLIR Systems' maximum liability under this warranty is limited to the obligation to replace or, at its sole option, to credit Buyer's account up to the purchase price.

**Download**

Contact info can be found at:

<http://support.flir.com>

**Compatible with the following products**

- N/A

## P/N: T199771

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T199771  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

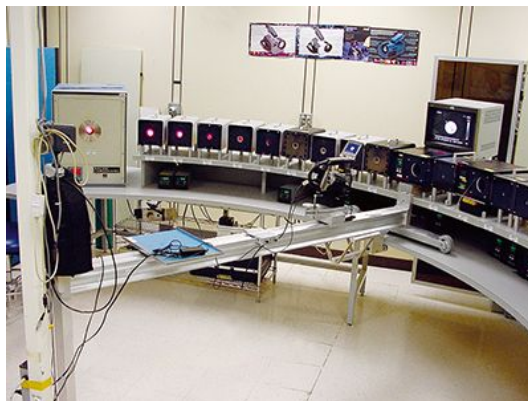
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

General Maintenance package offers a complete 14 points inspection and calibration service (for one lens combination). Shipping cost not included.

#### 14-point inspection program:

- Perform a complete operational check.
- Fusion calibration and laser alignment, when applicable.
- Verify all internal cable and PCB connections.
- Clean the viewfinder and check the optics.
- Upgrade the internal camera software to the latest revisions.
- Perform minor repairs.
- Verify and/or re-equalize as needed each temperature range for image uniformity.
- Verify standard lens calibration (optional: other or specially engineered lenses).
- Verify ambient temperature compensation as needed.
- Recalibration to ensure factory specifications are met.
- Calibrate temperature ranges up to +1500°C, when applicable.
- Perform a quality-approved acceptance test procedure.
- Provide a calibration label with the next due date.
- Provide a calibration certificate (optional: extended calibration certificate with measured values).

### Download

Contact info can be found at:

<http://support.flir.com>

### Compatible with the following products

- N/A

## P/N: ITC-FEE-0120

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-FEE-0120  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Certification DIN EN ISO 9712 TT Category 1	
Course information	
Available languages	DACH only
Course details	
Duration	1 day

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)

**P/N: ITC-FEE-0120**

© 2015, FLIR Systems, Inc.

#ITC-FEE-0120; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-CER-6101

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-6101  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
DIN EN ISO 9712 TT Category 1 Certification course, excl. Certification, 1 pers.	
Course information	
Available languages	DACH only
Course details	
Duration	5 days

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)

---

**P/N: ITC-CER-6101**

© 2015, FLIR Systems, Inc.

#ITC-CER-6101; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5



## P/N: ITC-CER-6109

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-6109  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
DIN EN ISO 9712 TT Category 1 Certification course, excl. Certification, group up to 10 pers.	
Course information	
Available languages	DACH only
Course details	
Duration	5 days

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)

---

**P/N: ITC-CER-6109**

© 2015, FLIR Systems, Inc.

#ITC-CER-6109; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5



## P/N: ITC-ADV-3021

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3021  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This interdisciplinary course bridges the gap between IR thermography, background science and application theory. Being an overview course it deals with three main application fields of thermography: electrical, industrial, and building. For every application the participant will learn about the specific theory, typical faults, and how to detect them with a thermography camera. The student will also learn about the basics of condition monitoring, and maintenance.

Examples and case studies from the real world illustrate the course content and are discussed with the participants. Participants will be trained in discovering and identifying typical faults by typical thermal patterns.

### Content

- Introduction
- Electrical Applications (current, voltage, resistance, electrical systems, Ohm's law, some important properties of materials, typical faults, surveying methodology and criteria, safety, voltage limits)
- Industrial Applications (bearings, pumps, gears, belts, misalignment and couplings, gaskets, seals, rings, glands, steam traps, furnaces)
- Building Applications (definition of the building envelope, steady state thermal transfer in a building envelope, transient thermal transfer in a building envelope, applications)

### Course information

Available languages	
English	
Target group	<ul style="list-style-type: none"> <li>• Professional thermographers holding a Level 1 or a Level 2 certificate and</li> <li>• with interest in increasing their knowledge of different thermographic applications, and their limitations or</li> <li>• with a special interest in condition monitoring of machines</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Knows how to operate the camera</li> <li>• Knows how to report</li> <li>• Works in the industry with e.g. maintenance and condition monitoring or is a consultant</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Valid Level 1 thermography certificate</li> <li>• IR related education and experience</li> </ul>

**P/N: ITC-ADV-3021**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3021; r. 23306; en-US

Course details	
Duration	3 days (24 hours)
Structure	The course is divided into the three parts: Electrical Applications, Industrial Applications, and Building Applications. Theory sessions and case studies including interactive discussions alternate.
Exam	A final exam (30 multiple choice questions) will be written on the 3d day in the afternoon. In connection, the correct answers will be discussed by the instructor and the participants.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Attendance of 1 person</li> <li>• Might include more, such as lunch, depending on location and organizing entity</li> </ul>
Course organization	
ITC	The Advanced General Thermography Course is offered worldwide by ITC as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary.
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Advanced General Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)

**P/N: ITC-ADV-3021**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3021; r. 23306; en-US

- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC

---

**P/N: ITC-ADV-3021**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3021; r. 23306; en-US

- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-ADV-3029

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3029  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This interdisciplinary course bridges the gap between IR thermography, background science and application theory. Being an overview course it deals with three main application fields of thermography: electrical, industrial, and building. For every application the participant will learn about the specific theory, typical faults, and how to detect them with a thermography camera. The student will also learn about the basics of condition monitoring, and maintenance.

Examples and case studies from the real world illustrate the course content and are discussed with the participants. Participants will be trained in discovering and identifying typical faults by typical thermal patterns.

### Content

- Introduction
- Electrical Applications (current, voltage, resistance, electrical systems, Ohm's law, some important properties of materials, typical faults, surveying methodology and criteria, safety, voltage limits)
- Industrial Applications (bearings, pumps, gears, belts, misalignment and couplings, gaskets, seals, rings, glands, steam traps, furnaces)
- Building Applications (definition of the building envelope, steady state thermal transfer in a building envelope, transient thermal transfer in a building envelope, applications)

### Course information

Available languages	
English	
Target group	
<ul style="list-style-type: none"> <li>• Professional thermographers holding a Level 1 or a Level 2 certificate and</li> <li>• with interest in increasing their knowledge of different thermographic applications, and their limitations or</li> <li>• with a special interest in condition monitoring of machines</li> </ul>	
Typical student	
<ul style="list-style-type: none"> <li>• Knows how to operate the camera</li> <li>• Knows how to report</li> <li>• Works in the industry with e.g. maintenance and condition monitoring or is a consultant</li> </ul>	
Pre-requisites	
<ul style="list-style-type: none"> <li>• Valid Level 1 thermography certificate</li> <li>• IR related education and experience</li> </ul>	

**P/N: ITC-ADV-3029**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3029; r. 23306; en-US

Course details	
Duration	3 days (24 hours)
Structure	The course is divided into the three parts: Electrical Applications, Industrial Applications, and Building Applications. Theory sessions and case studies including interactive discussions alternate.
Exam	A final exam (30 multiple choice questions) will be written on the 3d day in the afternoon. In connection, the correct answers will be discussed by the instructor and the participants.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Attendance of a group up to 10 persons</li> <li>• Might include more, such as lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	The Advanced General Thermography Course is offered worldwide by ITC as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary.
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Advanced General Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)

**P/N: ITC-ADV-3029**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3029; r. 23306; en-US

- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL

---

**P/N: ITC-ADV-3029**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3029; r. 23306; en-US

- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°



## P/N: ITC-ADV-3061

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3061  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
ITC Advanced Thermal applications course - attendance 1 pers. (3 days)	
Course information	
Available languages	DACH only
Course details	
Duration	3 days

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)

**P/N: ITC-ADV-3061**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3061; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°



---

**P/N: ITC-ADV-3061**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3061; r. 23306; en-US

- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-ADV-3069

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3069  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
ITC Advanced Thermal applications course - group up to 10 pers. (3 days)	
Course information	
Available languages	DACH only
Course details	
Duration	3 days

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)

**P/N: ITC-ADV-3069**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3069; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°



---

**P/N: ITC-ADV-3069**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3069; r. 23306; en-US

- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-CON-1001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CON-1001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

ITC conference fee

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-CON-1001**

© 2015, FLIR Systems, Inc.

#ITC-CON-1001; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC



**P/N: ITC-CON-1001**

© 2015, FLIR Systems, Inc.

#ITC-CON-1001; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-EXP-0511

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-0511  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
ITC Getting Started with Thermography - attendance, 1 pers.	
Course information	
Available languages	DE, FR, IT, NL, SE
Course details	
Duration	4 hours

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)

---

**P/N: ITC-EXP-0511**

© 2015, FLIR Systems, Inc.

#ITC-EXP-0511; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-EXP-0521

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-0521  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
ITC Getting Started with Thermography (evening or weekend) - attendance, 1 pers.	
Course information	
Available languages	DE, FR, IT, NL, SE
Course details	
Duration	4 hours

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)

---

**P/N: ITC-EXP-0521**

© 2015, FLIR Systems, Inc.

#ITC-EXP-0521; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-EXP-1021

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1021  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
An on-site training can be customized upon your needs. The participants will learn about IR thermography, inspections, measurements, applications, and reporting corresponding to the level needed for performing measurements and inspection in their working environment. The trainer will give useful advice on how to best implement IR thermography in your business.	
This partnumber is reserved for adding additional students to an on site class.	
Content	
<ul style="list-style-type: none"> <li>An on-site course can be any course, from a 1-day introduction to general thermography, over a customized application course to a complete certification course.</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Portable classroom labs</li> <li>Field training on the site in agreement with the customer</li> </ul>	
Course information	
Available languages	English, Dutch, German, French, Italian, Spanish, Swedish, other languages upon request
Target group	<ul style="list-style-type: none"> <li>Employees of a company or certain departments who would like to minimize travel costs and receive the training directly on their daily working site.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>
Course details	
Duration	Customized or according to the kind of course the in-house training is equivalent to.
Structure	Theory, camera handling, demos, practical labs and field training alternate.

**P/N: ITC-EXP-1021**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1021; r. 23306; en-US

Course details	
Exam	Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> </ul>
Course organization	
ITC	ITC In-house courses are offered worldwide by ITC and partners as listed. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	ITC In-house courses are lectured by ITC qualified instructors with experience in the relevant fields of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm

**P/N: ITC-EXP-1021**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1021; r. 23306; en-US

- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°



**P/N: ITC-EXP-1021**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1021; r. 23306; en-US

- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-1029

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1029  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
An on-site training can be customized upon your needs. The participants will learn about IR thermography, inspections, measurements, applications, and reporting corresponding to the level needed for performing measurements and inspection in their working environment. The trainer will give useful advice on how to best implement IR thermography in your business.	
Content	
<ul style="list-style-type: none"> <li>An on-site course can be any course, from a 1-day introduction to general thermography, over a customized application course to a complete certification course.</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Portable classroom labs</li> <li>Field training on the site in agreement with the customer</li> </ul>	
Course information	
Available languages	English, Dutch, German, French, Italian, Spanish, Swedish, other languages upon request
Target group	<ul style="list-style-type: none"> <li>Employees of a company or certain departments who would like to minimize travel costs and receive the training directly on their daily working site.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>
Course details	
Duration	Customized or according to the kind of course the in-house training is equivalent to.
Structure	Theory, camera handling, demos, practical labs and field training alternate.
Exam	Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.

**P/N: ITC-EXP-1029**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1029; r. 23306; en-US

Course details	
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> </ul>
Note	Course fee does not include cost for instructor's travelling or lodging. When organized at the customers' site, the customer is responsible for providing a suitable classroom and preferably also refreshments/lunch.
Course organization	
ITC	ITC In-house courses are offered worldwide by ITC and partners as listed. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	ITC In-house courses are lectured by ITC qualified instructors with experience in the relevant fields of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)

**P/N: ITC-EXP-1029**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1029; r. 23306; en-US

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL

**P/N: ITC-EXP-1029**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1029; r. 23306; en-US

- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-CER-5105

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5105  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 1 certified thermographer. The participant will learn about the basics of infrared, how to operate the camera under different conditions and for various purposes, how to do an appropriate judgement of the measurement situation in the field and how to identify potential error sources. After the class, the participant will be able to do IR inspections following written guidelines and to report the result of this inspection.

This partnumber is reserved for adding additional students to a level 1 on site class.

### Content

- Introduction to Thermography
- Camera Operation
- Basic physics of heat
- Basic physics of infrared
- Thermal pattern recognition and IR applications
- IR temperature measurement techniques
- Qualitative and quantitative thermography
- Inspection routines and reporting

### Student presentations

During the seminar, students will generate a small case study based on the lab exercises to be presented to the class.

### Labs

- Camera handling
- Level and Span
- Conduction pattern
- Forced convection
- Direct and indirect thermal measurement
- Thermal capacity
- Steady state and transient heat flow
- Evaporation and condensation
- Electrical application
- Emissivity and Reflected apparent temperature
- Spatial resolution
- Location and temperature measurement of a hot/cold spot
- Image transfer to the computer

**P/N: ITC-CER-5105**

© 2015, FLIR Systems, Inc.

#ITC-CER-5105; r. 23306; en-US

Course information	
Available languages	Chinese, Danish, Dutch, English, Finish, French, German, Greek, Hebrew, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (bra.), Romanian, Russian, Serbo-Croatian, Spanish, Swedish, Thai
Target group	<ul style="list-style-type: none"> <li>• Practical user</li> <li>• This course is designed for beginners in thermography with some experience in camera handling and limited IR knowledge, who want to take their first step to become a professional thermographer and want to qualify as a Level 1 certified thermographer.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>• having already some basic experience with IR thermography,</li> <li>• knowing the basic functions of the camera,</li> <li>• who wants to become a certified thermographer in order to gain a competitive advantage or who needs the certifications because of legal reasons or company internal regulations.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Be familiar with the basic operation of an infrared camera</li> <li>• Have the recommended experience within thermography according to relevant standards</li> </ul>

Course details	
Duration	35 – 40 hours
Structure	Theory and camera practice (hands-on) alternate every day, additional labs and software exercises at some days.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>• Attendance of 1 person</li> <li>• Might include more, such as lunch, depending on location and organizing entity</li> </ul>
Note	Only for non-EURO, non-SEK, non NOK, non- £, -non CHF countries

Course organization	
ITC	The Level 1 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)

**P/N: ITC-CER-5105**

© 2015, FLIR Systems, Inc.

#ITC-CER-5105; r. 23306; en-US

- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc



**P/N: ITC-CER-5105**

© 2015, FLIR Systems, Inc.

#ITC-CER-5105; r. 23306; en-US

- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-CER-5101

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5101  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 1 certified thermographer. The participant will learn about the basics of infrared, how to operate the camera under different conditions and for various purposes, how to do an appropriate judgement of the measurement situation in the field and how to identify potential error sources. After the class, the participant will be able to do IR inspections following written guidelines and to report the result of this inspection.

### Content

- Introduction to Thermography
- Camera Operation
- Basic physics of heat
- Basic physics of infrared
- Thermal pattern recognition and IR applications
- IR temperature measurement techniques
- Qualitative and quantitative thermography
- Inspection routines and reporting

### Student presentations

During the seminar, students will generate a small case study based on the lab exercises to be presented to the class.

### Labs

- Camera handling
- Level and Span
- Conduction pattern
- Forced convection
- Direct and indirect thermal measurement
- Thermal capacity
- Steady state and transient heat flow
- Evaporation and condensation
- Electrical application
- Emissivity and Reflected apparent temperature
- Spatial resolution
- Location and temperature measurement of a hot/cold spot
- Image transfer to the computer

**P/N: ITC-CER-5101**

© 2015, FLIR Systems, Inc.

#ITC-CER-5101; r. 23306; en-US

Course information	
Available languages	Chinese, Danish, Dutch, English, Finish, French, German, Greek, Hebrew, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (bra.), Romanian, Russian, Serbo-Croatian, Spanish, Swedish, Thai
Target group	<ul style="list-style-type: none"> <li>Practical user</li> <li>This course is designed for beginners in thermography with some experience in camera handling and limited IR knowledge, who want to take their first step to become a professional thermographer and want to qualify as a Level 1 certified thermographer.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>having already some basic experience with IR thermography,</li> <li>knowing the basic functions of the camera,</li> <li>who wants to become a certified thermographer in order to gain a competitive advantage or who needs the certifications because of legal reasons or company internal regulations.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Be familiar with the basic operation of an infrared camera</li> <li>Have the recommended experience within thermography according to relevant standards</li> </ul>

Course details	
Duration	35 – 40 hours
Structure	Theory and camera practice (hands-on) alternate every day, additional labs and software exercises at some days.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>Attendance of 1 person</li> <li>Might include more, such as lunch, depending on location and organizing entity</li> </ul>

Course organization	
ITC	The Level 1 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)

**P/N: ITC-CER-5101**

© 2015, FLIR Systems, Inc.

#ITC-CER-5101; r. 23306; en-US

- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)

**P/N: ITC-CER-5101**

© 2015, FLIR Systems, Inc.

#ITC-CER-5101; r. 23306; en-US

- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-CER-5109

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5109  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 1 certified thermographer. The participant will learn about the basics of infrared, how to operate the camera under different conditions and for various purposes, how to do an appropriate judgement of the measurement situation in the field and how to identify potential error sources. After the class, the participant will be able to do IR inspections following written guidelines and to report the result of this inspection.

### Content

- Introduction to Thermography
- Camera Operation
- Basic physics of heat
- Basic physics of infrared
- Thermal pattern recognition and IR applications
- IR temperature measurement techniques
- Qualitative and quantitative thermography
- Inspection routines and reporting

### Student presentations

During the seminar, students will generate a small case study based on the lab exercises to be presented to the class.

### Labs

- Camera handling
- Level and Span
- Conduction pattern
- Forced convection
- Direct and indirect thermal measurement
- Thermal capacity
- Steady state and transient heat flow
- Evaporation and condensation
- Electrical application
- Emissivity and Reflected apparent temperature
- Spatial resolution
- Location and temperature measurement of a hot/cold spot
- Image transfer to the computer

**P/N: ITC-CER-5109**

© 2015, FLIR Systems, Inc.

#ITC-CER-5109; r. 23306; en-US

Course information	
Available languages	Chinese, Danish, Dutch, English, Finish, French, German, Greek, Hebrew, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (bra.), Romanian, Russian, Serbo-Croatian, Spanish, Swedish, Thai
Target group	<ul style="list-style-type: none"> <li>• Practical user</li> <li>• This course is designed for beginners in thermography with some experience in camera handling and limited IR knowledge, who want to take their first step to become a professional thermographer and want to qualify as a Level 1 certified thermographer.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>• having already some basic experience with IR thermography,</li> <li>• knowing the basic functions of the camera,</li> <li>• who wants to become a certified thermographer in order to gain a competitive advantage or who needs the certifications because of legal reasons or company internal regulations.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Be familiar with the basic operation of an infrared camera</li> <li>• Have the recommended experience within thermography according to relevant standards</li> </ul>

Course details	
Duration	35 – 40 hours
Structure	Theory and camera practice (hands-on) alternate every day, additional labs and software exercises at some days.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>• Attendance of a group up to 10 persons</li> <li>• Might include more, such as lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>

Course organization	
ITC	The Level 1 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)

**P/N: ITC-CER-5109**

© 2015, FLIR Systems, Inc.

#ITC-CER-5109; r. 23306; en-US

- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310



**P/N: ITC-CER-5109**

© 2015, FLIR Systems, Inc.

#ITC-CER-5109; r. 23306; en-US

- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-CER-5205

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5205  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 2 certified thermographer. The participant will learn about topics in infrared thermography to increase the knowledge about infrared physics, heat science, infrared measurement equipment and its application. As a Level 2 thermographer the participant shall provide guidance to category 1 personnel in the areas of equipment selection, techniques, limitations, data analysis, corrective actions and reporting.

This partnumber is reserved for adding additional students to a level 2 on site class.

### Content

- Thermal science
- Heat transfer
- Temperature measurement
- Infrared science
- IR equipment and applications

### Student presentations

During the seminar, students shall present a prepared case study to the class. The maximum duration (excl. discussion) should be 7 minutes and the maximum number of 7 slides should not be exceeded.

### Labs (Note: Labs marked "(M)" are mandatory)

- Newton's law (class lab) (M)
- Advanced emissivity measurement (M)
- Variation of emissivity with the angle (M)
- Transient thermal transfer
- Indirect power measurement (M)
- IR-window transmission (M)
- Slit Response Function
- Hole Response Function (M)
- Parallel circuits

### Course information

Available languages	Dutch, English, German, French, Italian, Portuguese (bra.), Spanish, Swedish
Target group	<ul style="list-style-type: none"> <li>• Professional user</li> <li>• This course is designed for thermographers holding a Level 1 certificate, who want to increase their knowledge about IR thermography and who want to qualify as a Level 2 certified thermographer.</li> </ul>

**P/N: ITC-CER-5205**

© 2015, FLIR Systems, Inc.

#ITC-CER-5205; r. 23306; en-US

Course information	
Typical student	<ul style="list-style-type: none"> <li>A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>having several months of professional experience within thermography,</li> <li>versed in camera operation and reporting,</li> <li>holding a Level 1 certificate,</li> <li>who needs the Level 2 Certification for guidance and supervision of other thermographers or is interested in deeper understanding of IR thermography.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Valid Level 1 thermography certificate,</li> <li>Recommended experience within thermography according to relevant standards,</li> <li>Prepared case study to be presented at the Level 2 course and submitted towards qualification at course closing.</li> </ul>

Course details	
Duration	40 hours
Structure	Theory, camera practice (hands-on), and prepared case studies alternate every day.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>Attendance of 1 person</li> <li>Might include more, such as lunch, depending on location and organizing entity.</li> </ul>
Note	Only for non-EURO, non-SEK, non NOK, non- £, -non CHF countries

Course organization	
ITC	The Level 2 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in T560393 Courses offered by ITC partners. Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)

**P/N: ITC-CER-5205**

© 2015, FLIR Systems, Inc.

#ITC-CER-5205; r. 23306; en-US

- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°

**P/N: ITC-CER-5205**

© 2015, FLIR Systems, Inc.

#ITC-CER-5205; r. 23306; en-US

- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-CER-5201

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5201  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 2 certified thermographer. The participant will learn about topics in infrared thermography to increase the knowledge about infrared physics, heat science, infrared measurement equipment and its application. As a Level 2 thermographer the participant shall provide guidance to category 1 personnel in the areas of equipment selection, techniques, limitations, data analysis, corrective actions and reporting.

### Content

- Thermal science
- Heat transfer
- Temperature measurement
- Infrared science
- IR equipment and applications

### Student presentations

During the seminar, students shall present a prepared case study to the class. The maximum duration (excl. discussion) should be 7 minutes and the maximum number of 7 slides should not be exceeded.

### Labs (Note: Labs marked "(M)" are mandatory)

- Newton's law (class lab) (M)
- Advanced emissivity measurement (M)
- Variation of emissivity with the angle (M)
- Transient thermal transfer
- Indirect power measurement (M)
- IR-window transmission (M)
- Slit Response Function
- Hole Response Function (M)
- Parallel circuits

### Course information

Available languages	Dutch, English, German, French, Italian, Portuguese (bra.), Spanish, Swedish
Target group	<ul style="list-style-type: none"> <li>• Professional user</li> <li>• This course is designed for thermographers holding a Level 1 certificate, who want to increase their knowledge about IR thermography and who want to qualify as a Level 2 certified thermographer.</li> </ul>

**P/N: ITC-CER-5201**

© 2015, FLIR Systems, Inc.

#ITC-CER-5201; r. 23306; en-US

Course information	
Typical student	<ul style="list-style-type: none"> <li>A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>having several months of professional experience within thermography,</li> <li>versed in camera operation and reporting,</li> <li>holding a Level 1 certificate,</li> <li>who needs the Level 2 Certification for guidance and supervision of other thermographers or is interested in deeper understanding of IR thermography.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Valid Level 1 thermography certificate,</li> <li>Recommended experience within thermography according to relevant standards,</li> <li>Prepared case study to be presented at the Level 2 course and submitted towards qualification at course closing.</li> </ul>
Course details	
Duration	40 hours
Structure	Theory, camera practice (hands-on), and prepared case studies alternate every day.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>Attendance of 1 person</li> <li>Might include more, such as lunch, depending on location and organizing entity.</li> </ul>
Course organization	
ITC	The Level 2 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in T560393 Courses offered by ITC partners. Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)

**P/N: ITC-CER-5201**

© 2015, FLIR Systems, Inc.

#ITC-CER-5201; r. 23306; en-US

- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°



**P/N: ITC-CER-5201**

© 2015, FLIR Systems, Inc.

#ITC-CER-5201; r. 23306; en-US

- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-CER-5209

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5209  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 2 certified thermographer. The participant will learn about topics in infrared thermography to increase the knowledge about infrared physics, heat science, infrared measurement equipment and its application. As a Level 2 thermographer the participant shall provide guidance to category 1 personnel in the areas of equipment selection, techniques, limitations, data analysis, corrective actions and reporting.

#### Content

- Thermal science
- Heat transfer
- Temperature measurement
- Infrared science
- IR equipment and applications

#### Student presentations

During the seminar, students shall present a prepared case study to the class. The maximum duration (excl. discussion) should be 7 minutes and the maximum number of 7 slides should not be exceeded.

#### Labs (Note: Labs marked "(M)" are mandatory)

- Newton's law (class lab) (M)
- Advanced emissivity measurement (M)
- Variation of emissivity with the angle (M)
- Transient thermal transfer
- Indirect power measurement (M)
- IR-window transmission (M)
- Slit Response Function
- Hole Response Function (M)
- Parallel circuits

### Course information

#### Available languages

Dutch, English, German, French, Italian, Portuguese (bra.), Spanish, Swedish

#### Target group

- Professional user
- This course is designed for thermographers holding a Level 1 certificate, who want to increase their knowledge about IR thermography and who want to qualify as a Level 2 certified thermographer.

**P/N: ITC-CER-5209**

© 2015, FLIR Systems, Inc.

#ITC-CER-5209; r. 23306; en-US

Course information	
Typical student	<ul style="list-style-type: none"> <li>A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>having several months of professional experience within thermography,</li> <li>versed in camera operation and reporting,</li> <li>holding a Level 1 certificate,</li> <li>who needs the Level 2 Certification for guidance and supervision of other thermographers or is interested in deeper understanding of IR thermography.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Valid Level 1 thermography certificate,</li> <li>Recommended experience within thermography according to relevant standards,</li> <li>Prepared case study to be presented at the Level 2 course and submitted towards qualification at course closing.</li> </ul>
Course details	
Duration	40 hours
Structure	Theory, camera practice (hands-on), and prepared case studies alternate every day.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as lunch, instructor's travel expenses, etc. depending on location and organizing entity.</li> </ul>
Course organization	
ITC	The Level 2 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in T560393 Courses offered by ITC partners. Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)

**P/N: ITC-CER-5209**

© 2015, FLIR Systems, Inc.

#ITC-CER-5209; r. 23306; en-US

- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°

**P/N: ITC-CER-5209**

© 2015, FLIR Systems, Inc.

#ITC-CER-5209; r. 23306; en-US

- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-PRA-2011

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-PRA-2011  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

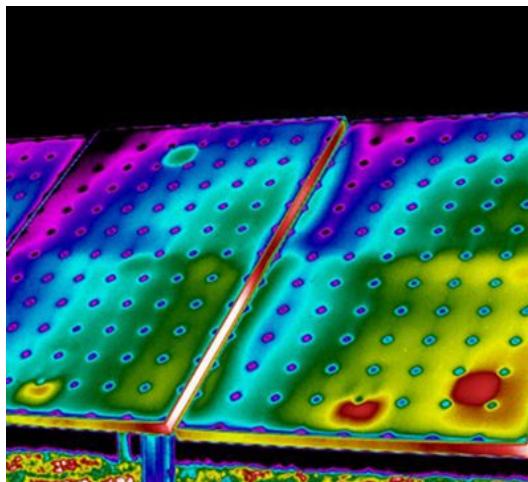
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course gives a general introduction to IR thermography and an overview on its specific use for inspections of photovoltaic solar systems.

During the first day, you learn about the basics of thermography, how a thermal camera works, and how to use it correctly. The second day starts with the basics of photovoltaic solar systems and solar panel installations. You learn about IR metrological particularities that are critical for solar panel inspections with a thermal camera, how to interpret the displayed thermal images, and in which way they can be associated to typical problems and faults. Emphasis is put on case studies, selected from the field, as well as practical exercises.

### Content

- Basics of thermography (radiation, spectral waveband, influences of the atmosphere)
- IR camera: principle, design and operation (FPA, measurement ranges, thermal tuning: level and span, color palettes)
- IR measurement technique: measurement parameters (emissivity, radiation from the environment, distance, relative humidity, atmospheric temperature)
- IR Camera figures of merit: resolution limits (thermal, spatial, time related)
- Practical exercises
- Basics of photovoltaic solar systems (terminology, design, principle of operation, module types)
- Solar panel installation: connection types (string, bypass diodes, shadowing)
- IR metrological particularity (spectral bands, inspection conditions, spatial resolution, camera positioning and angle)
- Typical thermal readouts (examples, causes and interpretation – defect/no defect, practical exercises)

### Course information

Available languages	English, French, German, Swedish, Italian, Dutch, Spanish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in the use of IR thermography for the inspection of photovoltaic solar systems.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person working with maintenance or installation of solar panels.</li> <li>• Thermographers familiar with electrical inspections and interested in solar panel inspections.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic knowledge in electrical installations or another technical field.</li> </ul>

### Course details

Duration	2 days
Structure	Theory, camera handling, demos and practical labs alternate.

**P/N: ITC-PRA-2011**

© 2015, FLIR Systems, Inc.

#ITC-PRA-2011; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by qualified ITC instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Might include more, such as lunch, depending on location</li> </ul>
Course organization	
ITC	The "ITC Practical Course Solar panel inspection" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC or ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Practical Course Solar panel inspection" is lectured by qualified ITC instructors with special experience in the field of solar panel installations.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5



---

**P/N: ITC-PRA-2011**

© 2015, FLIR Systems, Inc.

#ITC-PRA-2011; r. 23306; en-US

- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display



## P/N: ITC-PRA-2019

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-PRA-2019  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

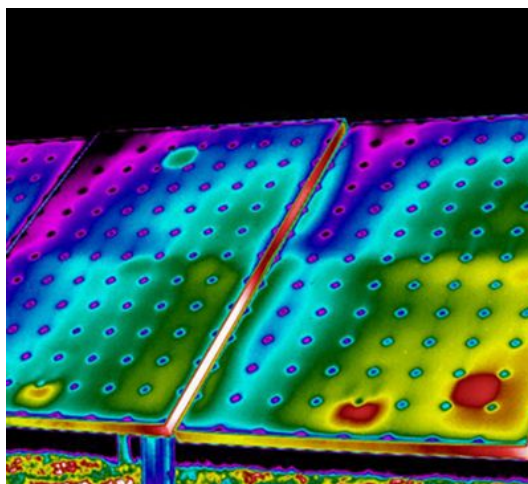
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course gives a general introduction to IR thermography and an overview on its specific use for inspections of photovoltaic solar systems.

During the first day, you learn about the basics of thermography, how a thermal camera works, and how to use it correctly. The second day starts with the basics of photovoltaic solar systems and solar panel installations. You learn about IR metrological particularities that are critical for solar panel inspections with a thermal camera, how to interpret the displayed thermal images, and in which way they can be associated to typical problems and faults. Emphasis is put on case studies, selected from the field, as well as practical exercises.

### Content

- Basics of thermography (radiation, spectral waveband, influences of the atmosphere)
- IR camera: principle, design and operation (FPA, measurement ranges, thermal tuning: level and span, color palettes)
- IR measurement technique: measurement parameters (emissivity, radiation from the environment, distance, relative humidity, atmospheric temperature)
- IR Camera figures of merit: resolution limits (thermal, spatial, time related)
- Practical exercises
- Basics of photovoltaic solar systems (terminology, design, principle of operation, module types)
- Solar panel installation: connection types (string, bypass diodes, shadowing)
- IR metrological particularity (spectral bands, inspection conditions, spatial resolution, camera positioning and angle)
- Typical thermal readouts (examples, causes and interpretation – defect/no defect, practical exercises)

### Course information

Available languages	English, French, German, Swedish, Italian, Dutch, Spanish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in the use of IR thermography for the inspection of photovoltaic solar systems.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person working with maintenance or installation of solar panels.</li> <li>• Thermographers familiar with electrical inspections and interested in solar panel inspections.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic knowledge in electrical installations or another technical field.</li> </ul>

### Course details

Duration	2 days
Structure	Theory, camera handling, demos and practical labs alternate.
Exam	None

**P/N: ITC-PRA-2019**

© 2015, FLIR Systems, Inc.

#ITC-PRA-2019; r. 23306; en-US

Course details	
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by qualified ITC instructor</li> <li>• Training material in printed format</li> <li>• Diploma of attendance</li> <li>• Attendance of a group up to 10 persons</li> <li>• Might include more, such as refreshments or lunch, depending on location.</li> </ul>
Note	Course fee does not include cost for instructor's travelling or lodging.
Course organization	
ITC	The "ITC Practical Course Solar panel inspection" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC or ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Practical Course Solar panel inspection" is lectured by qualified ITC instructors with special experience in the field of solar panel installations.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3



---

**P/N: ITC-PRA-2019**

© 2015, FLIR Systems, Inc.

#ITC-PRA-2019; r. 23306; en-US

- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-2041

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2041  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course gives a general introduction to IR thermography and an overview on its specific use for inspections of electrical systems. It aims at giving you clues on what you can do with your camera.

During the first day, you learn the basics of thermography and how to use your camera the best way. The second day you will start with a brief reminder of thermal transfers before you learn about electrical systems and components, material properties, typical problems and faults. Emphasis is put on case studies, selected from the field.

### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- IR Camera handling
- Basics of heat transfer
- Electrical systems
- Important properties of material
- Most common problems
- Case studies
- Common mistakes
- Application guidelines
- Data analysis and reports

### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement
- Electrical application labs

### Course information

Available languages	English, French, German, Swedish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in IR thermography and electrical applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person working with maintenance or installation of electrical systems</li> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> <li>• Students and pupils with thermography and electrical application related projects</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>

**P/N: ITC-EXP-2041**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2041; r. 23306; en-US

Course details	
Duration	2 days
Structure	Theory, camera handling, demos and practical labs alternate.
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by qualified ITC instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Might include more, such as lunch, depending on location</li> </ul>
Course organization	
ITC	The "ITC Short Course Electrical Thermography" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Electrical Thermography" is lectured by qualified ITC instructors with special experience in the field of electrical installations.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)



---

**P/N: ITC-EXP-2041**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2041; r. 23306; en-US

- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-2049

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2049  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course gives a general introduction to IR thermography and an overview on its specific use for inspections of electrical systems. It aims at giving you clues on what you can do with your camera.

During the first day, you learn the basics of thermography and how to use your camera the best way. The second day you will start with a brief reminder of thermal transfers before you learn about electrical systems and components, material properties, typical problems and faults. Emphasis is put on case studies, selected from the field.

### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- IR Camera handling
- Basics of heat transfer
- Electrical systems
- Important properties of material
- Most common problems
- Case studies
- Common mistakes
- Application guidelines
- Data analysis and reports

### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement
- Electrical application labs

### Course information

Available languages	English, French, German, Swedish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in IR thermography and electrical applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person working with maintenance or installation of electrical systems</li> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> <li>• Students and pupils with thermography and electrical application related projects</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>

**P/N: ITC-EXP-2049**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2049; r. 23306; en-US

Course details	
Duration	2 days
Structure	Theory, camera handling, demos and practical labs alternate.
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by qualified ITC instructor</li> <li>• Training material in printed format</li> <li>• Diploma of attendance</li> <li>• Attendance of a group up to 10 persons</li> <li>• Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	The "ITC Short Course Electrical Thermography" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Electrical Thermography" is lectured by qualified ITC instructors with special experience in the field of electrical installations.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)





---

**P/N: ITC-EXP-2049**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2049; r. 23306; en-US

- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-1019

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1019  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This is a full one day course for beginners and everybody interested in IR thermography and its applications. The course covers the basics of IR theory and includes demos, camera hand-on and practical exercises using relevant key labs.

### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- Introduction to electrical and building inspections
- IR Camera handling
- Data analysis and reports

### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement

### Course information

Available languages	English, French, German, Swedish, Danish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in IR thermography and its applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> <li>• A person who starts to use IR cameras at work</li> <li>• Students and pupils with thermography related projects</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>

### Course details

Duration	1 day
Structure	Theory, camera handling and demos in the morning. Practical labs in the afternoon.

**P/N: ITC-EXP-1019**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1019; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	The "ITC Short Course Introduction to Thermography" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Introduction to Thermography" is lectured by qualified ITC instructors with long time experience in the various fields of thermography.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)

**P/N: ITC-EXP-1019**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1019; r. 23306; en-US

- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC



---

**P/N: ITC-EXP-1019**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1019; r. 23306; en-US

- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-1011

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1011  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This is a full one day course for beginners and everybody interested in IR thermography and its applications. The course covers the basics of IR theory and includes demos, camera hand-on and practical exercises using relevant key labs.

#### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- Introduction to electrical and building inspections
- IR Camera handling
- Data analysis and reports

#### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement

### Course information

Available languages	English, French, German, Swedish, Danish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in IR thermography and its applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> <li>• A person who starts to use IR cameras at work</li> <li>• Students and pupils with thermography related projects</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>

### Course details

Duration	1 day
Structure	Theory, camera handling and demos in the morning. Practical labs in the afternoon.

**P/N: ITC-EXP-1011**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1011; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by qualified ITC instructor</li> <li>• Training material in printed format</li> <li>• Diploma of attendance</li> <li>• Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>
Course organization	
ITC	The "ITC Short Course Introduction to Thermography" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Introduction to Thermography" is lectured by qualified ITC instructors with long time experience in the various fields of thermography.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)

**P/N: ITC-EXP-1011**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1011; r. 23306; en-US

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL



---

**P/N: ITC-EXP-1011**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1011; r. 23306; en-US

- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-SOW-0001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-SOW-0001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
These courses are for users of FLIR software like FLIR Reporter Professional or FLIR ResearchIR. Please observe that content and labs depend on the software used.	
Content	
<ul style="list-style-type: none"> <li>• System requirements</li> <li>• Configuration</li> <li>• Analyzing functions</li> <li>• Templates</li> <li>• Reporting functions</li> <li>• Data exchange</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>• System set up</li> <li>• Data import</li> <li>• Data analysis</li> <li>• Creating templates</li> <li>• Creating reports</li> <li>• Exporting data</li> <li>• Triggering</li> </ul>	
Course information	
Available languages	English, French, German, other languages upon request
Target group	<ul style="list-style-type: none"> <li>• Persons interested in, or users, of the specific software.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Consultants interested in reporting</li> <li>• Building inspectors with reporting needs</li> <li>• R&amp;D staff interested in advanced data analysis</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Laptop with installed software full version or 30 day demo (download on <a href="http://www.flir.com">www.flir.com</a>)</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic knowledge about thermography and related parameters.</li> </ul>
Course details	
Duration	Depends on software.
Structure	Short system introduction, then demos and practical exercises.

**P/N: ITC-SOW-0001**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0001; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>
Course organization	
ITC	Software courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Software courses are lectured by ITC qualified instructors experienced in usage of the software being subject of the class.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)

**P/N: ITC-SOW-0001**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0001; r. 23306; en-US

- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°

**P/N: ITC-SOW-0001**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0001; r. 23306; en-US

- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-SOW-0009

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-SOW-0009  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
These courses are for users of FLIR software like FLIR Reporter Professional or FLIR ResearchIR. Please observe that content and labs depend on the software used.	
Content	
<ul style="list-style-type: none"> <li>System requirements</li> <li>Configuration</li> <li>Analyzing functions</li> <li>Templates</li> <li>Reporting functions</li> <li>Data exchange</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>System set up</li> <li>Data import</li> <li>Data analysis</li> <li>Creating templates</li> <li>Creating reports</li> <li>Exporting data</li> <li>Triggering</li> </ul>	
Course information	
Available languages	English, French, German, other languages upon request
Target group	<ul style="list-style-type: none"> <li>Persons interested in, or users, of the specific software.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Consultants interested in reporting</li> <li>Building inspectors with reporting needs</li> <li>R&amp;D staff interested in advanced data analysis</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Laptop with installed software full version or 30 day demo (download on <a href="http://www.flir.com">www.flir.com</a>)</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Basic knowledge about thermography and related parameters.</li> </ul>
Course details	
Duration	Depends on software.
Structure	Short system introduction, then demos and practical exercises.

**P/N: ITC-SOW-0009**

© 2015, FLIR Systems, Inc.  
#ITC-SOW-0009; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	Software courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Software courses are lectured by ITC qualified instructors experienced in usage of the software being subject of the class.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm

**P/N: ITC-SOW-0009**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0009; r. 23306; en-US

- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°



**P/N: ITC-SOW-0009**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0009; r. 23306; en-US

- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-1001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	1 day
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-1001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1001; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-1001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1001; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-1001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1001; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-1009

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1009  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	1 day
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-1009**

© 2015, FLIR Systems, Inc.  
#ITC-EXP-1009; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-1009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1009; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°



**P/N: ITC-EXP-1009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1009; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-2001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	2 days
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-2001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2001; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-2001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2001; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-2001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2001; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-2009

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2009  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	2 days
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-2009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2009; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-2009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2009; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°



**P/N: ITC-EXP-2009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2009; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-3001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-3001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	3 days
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-3001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3001; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-3001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3001; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-3001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3001; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-3009

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-3009  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	3 days
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-3009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3009; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-3009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3009; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°



**P/N: ITC-EXP-3009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3009; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-SOW-1001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-SOW-1001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

ITC Training FLIR Software - attendance 1 pers. (1 day)

### Course details

Duration	1 day
----------	-------

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)



---

**P/N: ITC-SOW-1001**

© 2015, FLIR Systems, Inc.

#ITC-SOW-1001; r. 23306; en-US

- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-SOW-2001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-SOW-2001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

ITC Training FLIR Software - attendance 1 pers. (2 days)

### Course details

Duration	2 days
----------	--------

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)



---

**P/N: ITC-SOW-2001**

© 2015, FLIR Systems, Inc.

#ITC-SOW-2001; r. 23306; en-US

- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TFT-0100

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TFT-0100  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

ITC travel time for instructor

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TFT-0100**

© 2015, FLIR Systems, Inc.  
#ITC-TFT-0100; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TFT-0100**

© 2015, FLIR Systems, Inc.  
#ITC-TFT-0100; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5



## P/N: ITC-FEE-0130

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-FEE-0130  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
EN - Repeat Certification EN473 IT Category 1	
Course information	
Available languages	DACH only
Course details	
Duration	1 day

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)



---

**P/N: ITC-FEE-0130**

© 2015, FLIR Systems, Inc.

#ITC-FEE-0130; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TOL-1003

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1003  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (Center and South Africa)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1003**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1003; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TOL-1003**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1003; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TOL-1001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (Europe, Balcans, Turkey, Cyprus)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1001**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1001; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TOL-1001**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1001; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5



## P/N: ITC-TOL-1005

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1005  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (other)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1005**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1005; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TOL-1005**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1005; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TOL-1002

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1002  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (Russia/GUS, Middle East, North Africa)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1002**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1002; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TOL-1002**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1002; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TOL-1004

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1004  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (various)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1004**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1004; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC



**P/N: ITC-TOL-1004**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1004; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

# Accessories for FLIR B6xx series (discontinued camera series)

---

## P/N: 19250-100

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 19250-100  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This device is a viewport which consist of a crystal "glass" window, mounted in an aluminum frame. The glass is specially formulated to allow transmission of infrared light to allow use of infrared thermal sensing equipment without opening the enclosure. This device is intended for installation in doors or walls of electrical enclosures without compromising the integrity of the enclosure.	
Power system	
Voltage	Any range
Environmental data	
Environment	Indoor/outdoor type 4/12
Operating temperature range	Maximum: 260°C (500°F)
Storage temperature range	Optics, maximum: 1357°C (2474°F)
Physical data	
Size (L x W x H)	25.5 x 73 x 86 mm (1.0 x 2.87 x 3.36 in.)
Viewing aperture diameter	45 mm (1.77 in.)
Material	Optics: CaF <sub>2</sub> (Calcium Fluoride Crystal) Body: Anodized aluminum Hardware: steel
Comments to physical data	Required hole diameter, nominal: 60.3 mm (2.375 in.) Greenlee Punch: 76BB Maximum pullout strength: 658 kg (1450 lb.)
Lens	
Waveband	Broadband IR: short-, mid-, and longwave
Visible light spectrum	Yes
Certifications	
Certification	UL, IP67, NEMA Type 4/12, CSA
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>IR window</li> <li>Case</li> <li>Mounting instruction</li> <li>Additional safety screw</li> </ul>
Packaging, weight	0.24 kg (0.53 lb.)
Packaging, size	120 x 115 x 40 mm (4.7 x 4.5 x 1.6 in.)
EAN-13	4743254000728
UPC-12	845188002817
Country of origin	Estonia



IR Window 2 in

---

**P/N: 19250-100**

© 2015, FLIR Systems, Inc.  
#19250-100; r. 23306; en-US

**Supplies & accessories:**

## P/N: 19251-100

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 19251-100  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This device is a viewport which consist of a crystal "glass" window, mounted in an aluminum frame. The glass is specially formulated to allow transmission of infrared light to allow use of infrared thermal sensing equipment without opening the enclosure. This device is intended for installation in doors or walls of electrical enclosures without compromising the integrity of the enclosure.	
Power system	
Voltage	Any range
Environmental data	
Environment	Indoor/outdoor type 4/12
Operating temperature range	Maximum: 260°C (500°F)
Storage temperature range	Optics, maximum: 1357°C (2474°F)
Physical data	
Size (L × W × H)	26.9 × 99 × 107 mm (1.05 × 3.89 × 4.22 in.)
Viewing aperture diameter	69 mm (2.71 in.)
Material	Optics: CaF <sub>2</sub> (Calcium Fluoride Crystal) Body: Anodized aluminum Hardware: steel
Comments to physical data	Required hole diameter, nominal: 88.9 mm (3.5 in.) Greenlee Punch: 739BB Maximum pullout strength: 1656 kg (3650 lb.)
Lens	
Waveband	Broadband IR: short-, mid-, and longwave
Visible light spectrum	Yes
Certifications	
Certification	UL, IP67, NEMA Type 4/12, CSA
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>IR window</li> <li>Case</li> <li>Mounting instruction</li> <li>Additional safety screw</li> </ul>
Packaging, weight	0.39 kg (0.86 lb.)
Packaging, size	130 × 140 × 40 mm (5.12 × 5.51 × 1.58 in.)
EAN-13	4743254000735
UPC-12	845188002824
Country of origin	Estonia



IR Window 3 in.

---

**P/N: 19251-100**

© 2015, FLIR Systems, Inc.  
#19251-100; r. 23306; en-US

**Supplies & accessories:**

## P/N: 19252-100

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 19252-100  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This device is a viewport which consist of a crystal "glass" window, mounted in an aluminum frame. The glass is specially formulated to allow transmission of infrared light to allow use of infrared thermal sensing equipment without opening the enclosure. This device is intended for installation in doors or walls of electrical enclosures without compromising the integrity of the enclosure.	
Power system	
Voltage	Any range
Environmental data	
Environment	Indoor/outdoor type 4/12
Operating temperature range	Maximum: 260°C (500°F)
Storage temperature range	Optics, maximum: 1357°C (2474°F)
Physical data	
Size (L x W x H)	29.3 x 127 x 137 mm (1.15 x 5.01 x 5.37 in.)
Viewing aperture diameter	89 mm (3.50 in.)
Material	Optics: CaF2 (Calcium Fluoride Crystal) Body: Anodized aluminum Hardware: steel
Comments to physical data	Required hole diameter, nominal: 114.3 mm (4.5 in.) Greenlee Punch: 742BB Maximum pullout strength: 1678 kg (3700 lb.)
Lens	
Waveband	Broadband IR: short-, mid-, and longwave
Visible light spectrum	Yes
Certifications	
Certification	UL, IP67, NEMA Type 4/12, CSA
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>IR window</li> <li>Case</li> <li>Mounting instruction</li> <li>Additional safety screw</li> </ul>
Packaging, weight	0.46 kg (1.01 lb.)
Packaging, size	165 x 175 x 40 mm (6.50 x 6.89 x 1.58 in.)
EAN-13	4743254000742
UPC-12	845188002831
Country of origin	Estonia



IR Window 4 in.

---

**P/N: 19252-100**

© 2015, FLIR Systems, Inc.  
#19252-100; r. 23306; en-US

**Supplies & accessories:**



## P/N: 19250-200

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 19250-200  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Part name	IRW-2S
Material number	19250-200
Part description	Stainless steel IR window, 2" diameter
This device is a viewport that consist of a crystal "glass" window mounted in an aluminum frame. The glass is specially formulated to allow transmission of infrared (IR) light to allow use of IR thermal sensing equipment without opening the enclosure. This device is intended for installation in doors or walls of electrical enclosures without compromising the integrity of the enclosure.	
<b>Power system</b>	
Voltage	Any range
<b>Lens</b>	
Waveband	Broadband IR: short-, mid-, and longwave
Visible light spectrum	Yes
<b>Certifications</b>	
Certifications	UL, IP67, NEMA Type 4/12, CSA
<b>Physical data</b>	
Weight	0.5 kg (1 lb.)
Dimensions (H x W x L)	26.9 mm x 99 mm x 107 mm (1.05" x 3.89" x 4.22")
Material	Optics: CaF <sub>2</sub> (calcium fluoride crystal). Body: stainless steel AISI 316. Hardware: steel
Color	Metallic silver
<b>Shipping information</b>	
Packaging type	Color box
Packaging contents	<ul style="list-style-type: none"> <li>IR window</li> <li>Case</li> <li>Mounting instructions</li> <li>Additional safety screw</li> </ul>
Unit weight	0.54 kg (1.2 lb)
Each dimensions (H x W x L)	38.1 mm x 107.95 mm x 127 mm (1.5" x 4.25" x 5")
EAN-13	4743254001510
UPC-12	845188007584
Country of origin	Estonia
Tariff Code	9027.90.5450



---

**P/N: 19250-200**

© 2015, FLIR Systems, Inc.  
#19250-200; r. 23306; en-US

---

Technical support	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>

**Supplies and accessories**

## P/N: 19251-200

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 19251-200  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Part name	IRW-3S
Material number	19251-200
Part description	Stainless steel IR window, 3" diameter
This device is a viewport that consist of a crystal "glass" window mounted in an aluminum frame. The glass is specially formulated to allow transmission of infrared (IR) light to allow use of IR thermal sensing equipment without opening the enclosure. This device is intended for installation in doors or walls of electrical enclosures without compromising the integrity of the enclosure.	
<b>Power system</b>	
Voltage	Any range
<b>Environmental</b>	
Environment	Indoor/outdoor type 4/12
Operating temperature range	Maximum: 260°C (500°F)
Storage temperature range	Optics, maximum: 1357°C (2474°F)
<b>Certifications</b>	
Certifications	UL, IP67, NEMA Type 4/12, CSA
<b>Physical data</b>	
Weight:	0.7 kg (1.55 lb.)
Dimensions (H x W x L)	26.9 mm x 99 mm x 107 mm (1.05" x 3.89" x 4.22")
Material	Optics: CaF <sub>2</sub> (calcium fluoride crystal). Body: stainless steel AISI 316. Hardware: steel
Color	Metallic silver
<b>Lens</b>	
Waveband	Broadband IR: short-, mid-, and longwave
Visible light spectrum	Yes
<b>Shipping information</b>	
Packaging type	Color box
Packaging contents	<ul style="list-style-type: none"> <li>IR window</li> <li>Case</li> <li>Mounting instruction</li> <li>Additional safety screw</li> </ul>
Unit weight	0.77 kg ( 1.7 lb.)



## SS IR window 3"

### P/N: 19251-200

© 2015, FLIR Systems, Inc.  
#19251-200; r. 23306; en-US

Shipping information	
Unit dimensions (H × W × L)	38.1 mm × 127 mm × 139.7 mm (1.5" × 5" × 5.5")
EAN-13	4743254001527
UPC-12	845188007591
Country of origin	Estonia
Tariff code	9027.90.5450
Technical support	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>

### Supplies and accessories

## P/N: 19252-200

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 19252-200  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Part name	IRW-4S
Material number	19252-200
Part description	Stainless steel IR window, 4" diameter
This device is a viewport that consist of a crystal "glass" window mounted in an aluminum frame. The glass is specially formulated to allow transmission of infrared (IR) light to allow use of IR thermal sensing equipment without opening the enclosure. This device is intended for installation in doors or walls of electrical enclosures without compromising the integrity of the enclosure.	
<b>Power system</b>	
Voltage	Any range
<b>Environmental</b>	
Environment	Indoor/outdoor type 4/12
Operating temperature range	Maximum: 260°C (500°F)
Storage temperature range	Optics, maximum: 1357°C (2474°F)
<b>Certifications</b>	
Certifications	UL, IP67, NEMA Type 4/12, CSA
<b>Physical data</b>	
Weight:	1.18 kg (2.6 lb.)
Dimensions (H x W x L)	26.9 mm x 99 mm x 107 mm (1.05" x 3.89" x 4.22")
Material	Optics: CaF <sub>2</sub> (calcium fluoride crystal). Body: stainless steel AISI 316. Hardware: steel
Color	Metallic silver
<b>Lens</b>	
Waveband	Broadband IR: short-, mid-, and longwave
Visible light spectrum	Yes
<b>Shipping information</b>	
Packaging type	Color box
Packaging contents	<ul style="list-style-type: none"> <li>IR window</li> <li>Case</li> <li>Mounting instruction</li> <li>Additional safety screw</li> </ul>
Unit weight	1.32 kg ( 2.9 lb.)
Unit dimensions (H x W x L)	38.1 mm x 165.1 mm x 177.8 mm ( 1.5" x 6.5" x 7")
EAN-13	4743254001534
UPC-12	845188007607



## SS IR window 4"

### P/N: 19252-200

© 2015, FLIR Systems, Inc.  
#19252-200; r. 23306; en-US

Shipping information	
Country of origin	Estonia
Tariff code	9027.90.5450
Technical support	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>

### Supplies and accessories

## P/N: 1196683

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1196683  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This close-up optic attaches to the standard 24° lens and provides resolution of very small targets.	
Imaging and optical data	
Field of view (FOV)	32 × 24 mm (1.26 × 0.94 in.)
Magnifying factor	0.5×
Minimum focus distance	60.3 mm (2.36 in.)
Focal length	76.3 mm (3.0 in.)
Spatial resolution (IFOV)	50 μm
F-number	1.1
Physical data	
Weight	131 g
Size (L × D)	28.6 mm (1.12 in.) × 81.0 (3.19 in)
Shipping information	
Packaging, type	Cardboard box
Packaging, weight	0.415 kg (0.91 lb.)
Packaging, size	172 × 131 × 133 mm (6.8 × 5.2 × 5.2 in.)
EAN-13	7332558005750
UPC-12	845188005962
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: T197188

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197188  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The  $12^\circ$  lens is a popular lens accessory and provides  $2\times$  magnification compared to the standard lens. Ideal for small or distant targets such as overhead power lines.

### Imaging and optical data

Field of view (FOV)	$12^\circ \times 9^\circ$
Minimum focus distance	1.2 m (3.9 ft.)
Focal length	76 mm (3.0 in.)
Spatial resolution (IFOV)	0.33 mrad
F-number	1.1

### Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"><li>• Lens</li><li>• Lens case</li></ul>
Packaging, weight	1.10 kg (2.4 lb.)
Packaging, size	174 × 133 × 133 mm (6.9 × 5.2 × 5.2 in.)
EAN-13	7332558003725
UPC-12	845188003944
Country of origin	Sweden

### Compatible with the following products

- N/A



## P/N: T197190

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197190  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The 7° lens is a popular lens accessory and provides 3.5× magnification compared to the standard lens. Ideal for small or distant targets such as overhead power lines.

### Imaging and optical data

Field of view (FOV)	7° × 5.3°
Minimum focus distance	3.0 m (9.8 ft.)
Focal length	131 mm (5.2 in.)
Spatial resolution (IFOV)	0.19 mrad
F-number	1.1

### Physical data

Weight	1.50 kg (3.30 lb.), Support 0.45 kg (0.99 lb.)
Size (L × D)	168.2 mm (6.62 in.) × 146.0 mm (5.75 in.)

### Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"><li>• Lens</li><li>• Lens case</li><li>• Mounting support</li></ul>
Packaging, weight	2.685 kg (5.9 lb.)
Packaging, size	355 × 256 × 260 mm (14.0 × 10.1 × 10.2 in.)
EAN-13	7332558003732
UPC-12	845188003951
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: T197189

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197189  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This wide angle lens has a field of view almost double that of the standard 24° lens. Perfect for wide or tall targets or when working in crowded spaces.

### Imaging and optical data

Field of view (FOV)	45° × 34°
Minimum focus distance	0.2 m (0.7 ft.)
Focal length	19 mm (0.75 in.)
Spatial resolution (IFOV)	1.3 mrad
F-number	1.1

### Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"><li>• Lens</li><li>• Lens case</li></ul>
Packaging, weight	0.818 kg (1.80 lb.)
Packaging, size	174 × 133 × 133 mm (6.9 × 5.2 × 5.2 in.)
EAN-13	7332558003749
UPC-12	845188003968
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: T197187

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197187  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
The standard 24° lens is suitable for the majority of applications.	
Imaging and optical data	
Field of view (FOV)	24° × 18°
Minimum focus distance	0.3 m (1.0 ft.)
Focal length	38 mm (1.5 in.)
Spatial resolution (IFOV)	0.65 mrad
F-number	1.1
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"><li>• Lens</li><li>• Lens case</li></ul>
Packaging, weight	0.61 kg (1.34 lb.)
Packaging, size	174 × 133 × 133 mm (6.9 × 5.2 × 5.2 in.)
EAN-13	7332558003756
UPC-12	845188003975
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: T197341

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197341  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
For R&D usage or development purposes. As an example looking at PCB's or small electronic components.	
Imaging and optical data	
Field of view (FOV)	16 × 12 mm (0.63 × 0.47 in.)
Magnifying factor	1x
Working distance	18 mm (0.71 in.)
Depth of field	±0.13 mm
Spatial resolution (IFOV)	25 µm
F-number	1.1
Focus	Fixed
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Lens</li> <li>• Lens case</li> </ul>
Packaging, weight	0.872 kg (1.9 lb.)
Packaging, size	172 × 131 × 133 mm (6.8 × 5.2 × 5.2 in.)
EAN-13	7332558005941
UPC-12	845188006136
Country of origin	Sweden

### Compatible with the following products

- N/A

### P/N: T197343

#### Copyright

© 2015, FLIR Systems, Inc.

All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

#### Document identity

Publ. No.: T197343

Commit: 23380

Language: en-US

Modified: 2015-02-24 14:12

Formatted: 2015-05-12

#### Corporate Headquarters

FLIR Systems, Inc.

27700 SW Parkway Ave.

Wilsonville, OR 97070

USA

Telephone: +1-503-498-3547

#### Website

<http://www.flir.com>

#### Customer support

<http://support.flir.com>

#### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Protective window for the 24° lens. The window is made of monocrystalline fluoride.	
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"><li>• Lens</li><li>• Lens case</li></ul>
Packaging, weight	0.525 kg (1.16 lb.)
Packaging, size	174 × 133 × 133 mm (6.9 × 5.2 × 5.2 in.)
EAN-13	7332558003763
UPC-12	845188003982
Country of origin	Sweden

#### Compatible with the following products

- N/A

## P/N: 1196745

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1196745  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

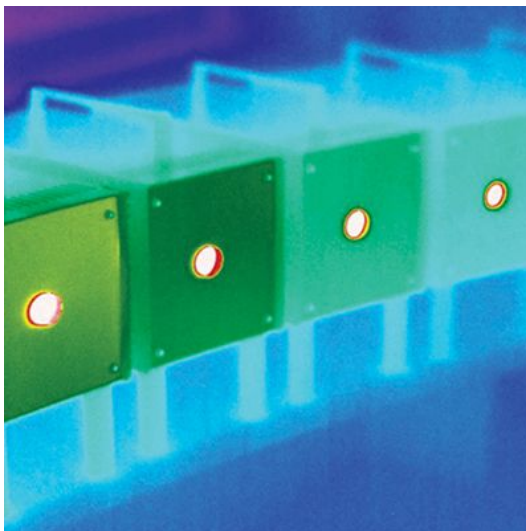
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

For high temperature applications the camera can be calibrated for high temperature ranges.

### Measurement

Optional object temperature range

Up to +2000°C (+3632°F)

### Compatible with the following products

- N/A

## P/N: 1196744

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1196744  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

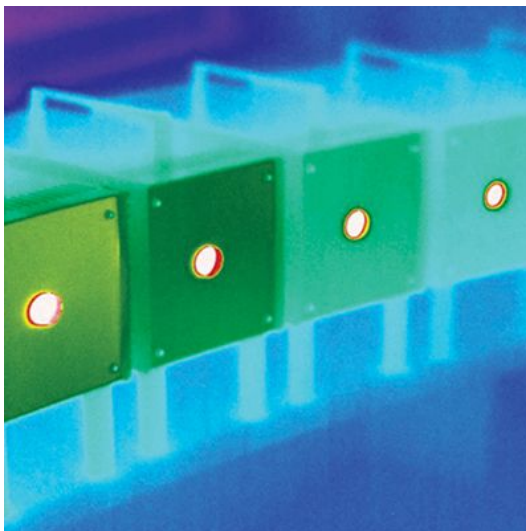
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

For high temperature applications the camera can be calibrated for high temperature ranges.

### Measurement

Optional object temperature range

Up to +1500°C (+2732°F)

### Compatible with the following products

- N/A

## P/N: T197692

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197692  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Stand-alone 2-bay battery charger, including power supply with multi plugs.	
Note: This product replaces T197563 and 1196210EU/UK/US	
Power system	
AC operation	100–240 VAC, 50/60 Hz, 12 VDC out
Power	3000 mA at 12 VDC
Physical data	
Battery charger size (L × W × H)	158 × 122 × 25 mm (6.2 × 4.8 × 1.0 in.)
Cable length	1.98 m (6.5 ft.)
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Stand-alone 2-bay battery charger</li> <li>Power supply including cable</li> <li>EU plug</li> <li>UK plug</li> <li>US plug</li> <li>AU plug</li> </ul>
Packaging, weight	0.60 kg (1.3 lb.)
Packaging, size	243 × 165 × 82 mm (9.6 × 6.5 × 3.2 in.)
EAN-13	7332558003787
UPC-12	845188004002
Country of origin	Sweden

### Compatible with the following products

- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens





---

**P/N: T197692**

© 2015, FLIR Systems, Inc.  
#T197692; r. 23306; en-US

- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

## P/N: T910814

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T910814  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
FLIR P/B/SC6xx and FLIR GF3xx series:	
Power supply, including multiple plugs, to charge the battery when it is inside or outside of the camera.	
FLIR T6xx and FLIR Exx series:	
Power supply, including multiple plugs, to charge the battery when it is inside the camera or in the battery charger.	
Power system	
AC operation	100–240 VAC, 50/60 Hz, 12 VDC out
Power	3000 mA at 12 VDC
Physical data	
Cable length	1.98 m (6.5 ft.)
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Power supply including cable</li> <li>EU plug</li> <li>UK plug</li> <li>US plug</li> <li>AU plug</li> </ul>
Packaging, weight	0.324 kg (9.7 lb.)
Packaging, size	152 × 78 × 73 mm (6.0 × 3.1 × 2.9 in.)
EAN-13	7332558003794 4743254001763 (Estonia plant)
UPC-12	845188002145
Country of origin	Sweden

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)

**P/N: T910814**

© 2015, FLIR Systems, Inc.  
#T910814; r. 23306; en-US

- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)



Power supply, incl. multi plugs

---

**P/N: T910814**

© 2015, FLIR Systems, Inc.  
#T910814; r. 23306; en-US

- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: T198511

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198511  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
High capacity battery for the IR camera.	
Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	7.2 V
Battery capacity	4.4 Ah at +20°C (+68°F)
Battery note	Approximate lithium content: 3.0 g
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 95% capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
Environmental data	
Battery storage temperature range	-40°C to +70°C (-40°F to +158°F)
Physical data	
Battery weight	0.24 kg (0.52 lb.)
Size (L x W x H)	141 x 47 x 28 mm (5.5 x 1.8 x 1.1 in.)
Shipping information	
Packaging, type	Cardboard box
Packaging, weight	0.324 kg (0.7 lb.)
Packaging, size	183 x 136 x 63 mm (7.2 x 5.4 x 2.5 in.)
EAN-13	7332558004364
UPC-12	845188004347
Country of origin	Sweden

### Compatible with the following products

- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens



---

**P/N: T198511**

© 2015, FLIR Systems, Inc.  
#T198511; r. 23306; en-US

- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens



# Memory card SDHC 4 GB

**P/N: T911230ACC**

## Copyright

© 2015, FLIR Systems, Inc.

All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: T911230ACC

Commit: 23306

Language: en-US

Modified: 2015-02-23 15:46

Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.

27700 SW Parkway Ave.

Wilsonville, OR 97070

USA

Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.

General description	
SD Card for data storage (e.g. images)	
Data communication interfaces	
Memory card, size	At least 4 GB
Physical data	
Weight	2 g (0.07 oz.)
Size (L x W x H)	32.0 x 24.0 x 2.1 mm (1.26 x 0.94 x 0.08 in.)
Shipping information	
Packaging, type	Cardboard box
List of contents	• SD Card
Packaging, weight	65 g (2.3 oz.)
Packaging, size	170 x 64 x 75 mm (6.69 x 2.52 x 2.95 in.)
EAN-13	7332558006221 4743254001503 (Estonia plant)
UPC-12	845188006570
Country of origin	Sweden

## Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)

**P/N: T911230ACC**

© 2015, FLIR Systems, Inc.  
#T911230ACC; r. 23306; en-US

- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)



**P/N: 1910423**

**Copyright**

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

**Document identity**

Publ. No.: 1910423  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

**Corporate Headquarters**

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

**Website**

<http://www.flir.com>

**Customer support**

<http://support.flir.com>

**Disclaimer**

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This cable is used to connect the infrared camera with a computer, using the USB protocol.	
Physical data	
Weight	60 g (2.1 oz.)
Cable length	1.8 m (5.9 ft.)
Connector	Standard USB-A to USB Mini-B
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558003428
UPC-12	845188002176
Country of origin	Sweden

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)

**P/N: 1910423**

© 2015, FLIR Systems, Inc.  
#1910423; r. 23306; en-US

- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40



---

**P/N: 1910423**

© 2015, FLIR Systems, Inc.  
#1910423; r. 23306; en-US

- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72201-0106; FLIR K45
- 72201-0206; FLIR K55

## P/N: T198509

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198509  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This cable is used to power the infrared camera from the cigarette lighter socket in a car.	
Note: This is the same product as p/n 1196497.	
Physical data	
Cable length	1.2 m (3.9 ft).
Shipping information	
Packaging, type	Cardboard box
Packaging, weight	0.125 kg (0.28 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558004340 4743254001435 (Estonia plant)
UPC-12	845188004361
Country of origin	Sweden

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)

**P/N: T198509**

© 2015, FLIR Systems, Inc.  
#T198509; r. 23306; en-US

- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72201-0106; FLIR K45
- 72201-0206; FLIR K55

## P/N: 1910484ACC

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1910484ACC  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This cable is used to transfer video signals from the infrared camera to an external monitor, or to a computer featuring an internal video card.

### Physical data

Weight	60 g (2.1 oz.)
Cable length	2.0 m (6.6 ft.)
Connector	RCA to RCA

### Shipping information

Packaging, type	Cardboard box
Packaging, weight	163 g (5.7 oz.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558006252
UPC-12	845188006600
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: 1910483ACC

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1910483ACC  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This cable is used to connect the infrared camera with a computer, using the FireWire protocol.	
Physical data	
Weight	128 g (4.5 oz.)
Cable length	2.0 m (6.6 ft.)
Connector	FireWire 4-pin to 6-pin
Shipping information	
Packaging, type	Cardboard box
Packaging, weight	156 g (5.5 oz.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558006238
UPC-12	845188006587
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: 1910482ACC

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1910482ACC  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This cable is used to connect the infrared camera with a computer, using the FireWire protocol.	
Physical data	
Weight	157 g (5.5 oz.)
Cable length	2.0 m (6.6 ft.)
Connector	FireWire 6-pin to 6-pin
Shipping information	
Packaging, type	Cardboard box
Packaging, weight	243 g (8.6 oz.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558006245
UPC-12	845188006594
Country of origin	Sweden

### Compatible with the following products

- N/A



## P/N: T197262

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197262  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Hard transport case for FLIR B/P/SC6XX	
Physical data	
Weight	3.5 kg (7.7 lb.)
Size (L x W x H)	495 x 387 x 194 mm (19.5 x 15.2 x 7.6 in.)
Color	Black
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009666
UPC-12	845188010249
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: T197921

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197921  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

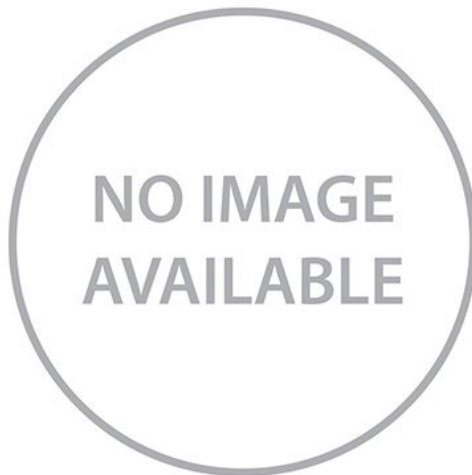
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This camera option adds more functionality to the FireWire port. The FireWire port can now be used to transfer real-time, full dynamic IR video to a PC for data capture and analysis.	
This option for P/B6XX shall primarily be sold with FLIR QuickPlot for the predictive maintenance and building market, however it is also compatible with FLIR ResearchIR.	
Key features:	
<ul style="list-style-type: none"><li>Real time radiometric data streaming to PC using FireWire</li><li>Supports Windowing (with FLIR ResearchIR)</li></ul>	
Video streaming	
Radiometric IR video streaming	Real-time full dynamic to PC using FireWire: <ul style="list-style-type: none"><li>- 9 Hz using FLIR QuickPlot</li><li>- 30 Hz or 60/120 Hz (with windowing) using FLIR ResearchIR</li></ul>
Shipping information	
List of contents	<ul style="list-style-type: none"><li>Option for P/B6XX: Radiometric IR video streaming using FireWire</li></ul>
EAN-13	7332558009758
UPC-12	845188010294
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: T198508

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198508  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Standard headset with 3.5 mm plug	
Data communication interfaces	
Audio	Headset including microphone
Audio, connector type	4-pole 3.5 mm jack
Shipping information	
Packaging, type	Cardboard box
List of contents	• Headset
Packaging, weight	0.115 kg (0.25 lb.)
Packaging, size	183 × 136 × 63 mm (7.2 × 5.4 × 2.5 in.)
EAN-13	7332558004357
UPC-12	845188004354
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: T951387

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T951387  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Wi-Fi USB adapter for wireless connection between the infrared camera and external equipment.	
NOTE: Only for use in markets accepting CE and FCC regulations for wireless equipment.	
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Wi-Fi USB micro adapter</li> </ul>
Packaging, weight	0.062 kg (0.14 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005859
UPC-12	845188006068
Country of origin	Sweden

### Compatible with the following products

- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

## P/N: T197771ACC

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197771ACC  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Headset with Bluetooth for wireless connection with the infrared camera.	
Data communication interfaces	
Bluetooth	Connection to the infrared camera
Audio	Headset including microphone
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Headset</li> <li>Ear clip</li> <li>Charger</li> <li>Multi plugs</li> <li>USB cable Std A to Mini-B</li> </ul>
Packaging, weight	278 g (9.8 oz.)
Packaging, size	183 × 136 × 63 mm (7.2 × 5.35 × 2.48 in.)
EAN-13	7332558006337
UPC-12	845188006686
Country of origin	Sweden

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)

**P/N: T197771ACC**

© 2015, FLIR Systems, Inc.  
#T197771ACC; r. 23306; en-US

- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: T951235ACC

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T951235ACC  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Bluetooth USB micro adapter for wireless connection between the infrared camera and external Bluetooth equipment.	
Data communication interfaces	
Bluetooth	USB-A
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"><li>Bluetooth USB micro adapter</li></ul>
Packaging, weight	65 g (2.3 oz.)
Packaging, size	170 × 64 × 75 mm (6.69 × 2.52 × 2.95 in.)
EAN-13	7332558006283
UPC-12	845188006631
Country of origin	Sweden

### Compatible with the following products

- N/A

**P/N: T198586**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: T198586  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

FLIR Reporter Professional is a powerful software for creating compelling and professional, fully customized, easy-to-interpret maintenance reports.

Professional Report Wizard guides you step-by-step in combining all IR inspection data - infrared and visual images, temperature measurements, and text notes – into a professional, easy-to-interpret maintenance report.

## Key features:

- Flexible report page design and layout for customized reports
- Use quick insert function to easily create custom report pages
- Fully integrated with standard Microsoft Word
- Generates reports in standard MS Office format and PDF-format
- Powerful temperature analysis
- Triple Fusion Picture-in-Picture (movable, sizable, scalable)
- Rapid report manager supporting automatic report generation by drag-and-drop
- Support for MSX (Multi-Spectral Dynamic Imaging) images
- Support for sketch images in both IR and visual with on/off toggling
- Support for same FOV ("Field of View Match")
- Grid settings
- Trending functionality
- Automatic link to Google™ Maps for images with GPS coordinates
- Automatic summary table for the report
- Fine tune images and make full temperature analysis directly in Microsoft Word
- Spell check
- Create your own formulas including measurement values from images
- Play radiometric sequences directly in the report
- Search functionality to quickly finding images for your report
- Panorama tool for combining several images to a larger image
- Support for GF series IR images
- Auto Update function
- Office 2003 (32-bit), Office 2007 (32-bit) and Office 2010 (32-bit)
- Windows 7 (32 and 64-bit), Windows Vista (32 and 64-bit)
- Support for METERLiNK™ data
- \*.docx compatibility

## Download

Download your copy of FLIR Reporter Professional here:

<http://support.flir.com/reporter>



**P/N: T198586**

© 2015, FLIR Systems, Inc.  
#T198586; r. 23306; en-US

Release notes	
Version	9.2
New features	<ul style="list-style-type: none"> <li>— News in 9.2: —</li> <li>Option to hide Zoom Viewer</li> <li>Option to extract Visual image from MSI/Fusion image.</li> <li>Support for the new FLIR Ex and Exx series cameras.</li> <li>Support for multispectral images.</li> <li>Support for auto-oriented images.</li> <li>Various bug fixes.</li> </ul>
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>FLIR Reporter Professional scratchcard</li> </ul>
Packaging, weight	0.135 kg (0.3 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005286 4743254001893 (Estonia plant)
UPC-12	845188005498
Country of origin	Sweden
System requirements	
Operating system	<ul style="list-style-type: none"> <li>Windows XP, 32-bit</li> <li>Windows Vista, 32-bit</li> <li>Windows Vista, 64-bit</li> <li>Windows 7, 32-bit</li> <li>Windows 7, 64-bit</li> </ul>
Software requirements	<ul style="list-style-type: none"> <li>Office 2007 (32-bit)</li> <li>Office 2010 (32-bit)</li> </ul>

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)

**P/N: T198586**

© 2015, FLIR Systems, Inc.  
#T198586; r. 23306; en-US

- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: T198586

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198586  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description
FLIR Reporter Professional is a powerful software for creating compelling and professional, fully customized, easy-to-interpret maintenance reports.
Professional Report Wizard guides you step-by-step in combining all IR inspection data - infrared and visual images, temperature measurements, and text notes – into a professional, easy-to-interpret maintenance report.
Key features:
<ul style="list-style-type: none"> <li>• Flexible report page design and layout for customized reports</li> <li>• Use quick insert function to easily create custom report pages</li> <li>• Fully integrated with standard Microsoft Word</li> <li>• Generates reports in standard MS Office format and PDF-format</li> <li>• Powerful temperature analysis</li> <li>• Triple Fusion Picture-in-Picture (movable, sizable, scalable)</li> <li>• Rapid report manager supporting automatic report generation by drag-and-drop</li> <li>• Support for MSX (Multi-Spectral Dynamic Imaging) images</li> <li>• Support for sketch images in both IR and visual with on/off toggling</li> <li>• Support for same FOV ("Field of View Match")</li> <li>• Grid settings</li> <li>• Trending functionality</li> <li>• Automatic link to Google™ Maps for images with GPS coordinates</li> <li>• Automatic summary table for the report</li> <li>• Fine tune images and make full temperature analysis directly in Microsoft Word</li> <li>• Spell check</li> <li>• Create your own formulas including measurement values from images</li> <li>• Play radiometric sequences directly in the report</li> <li>• Search functionality to quickly finding images for your report</li> <li>• Panorama tool for combining several images to a larger image</li> <li>• Support for GF series IR images</li> <li>• Auto Update function</li> <li>• Office 2003 (32-bit), Office 2007 (32-bit) and Office 2010 (32-bit)</li> <li>• Windows 7 (32 and 64-bit), Windows Vista (32 and 64-bit)</li> <li>• Support for METERLiNK™ data</li> <li>• *.docx compatibility</li> </ul>
Download
Download your copy of FLIR Reporter Professional here:
<a href="http://support.flir.com/reporter">http://support.flir.com/reporter</a>

**P/N: T198586**

© 2015, FLIR Systems, Inc.  
#T198586; r. 23306; en-US

Release notes	
Version	9.2
New features	<ul style="list-style-type: none"> <li>— News in 9.2: —</li> <li>Option to hide Zoom Viewer</li> <li>Option to extract Visual image from MSI/Fusion image.</li> <li>Support for the new FLIR Ex and Exx series cameras.</li> <li>Support for multispectral images.</li> <li>Support for auto-oriented images.</li> <li>Various bug fixes.</li> </ul>
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>FLIR Reporter Professional scratchcard</li> </ul>
Packaging, weight	0.135 kg (0.3 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005286 4743254001893 (Estonia plant)
UPC-12	845188005498
Country of origin	Sweden
System requirements	
Operating system	<ul style="list-style-type: none"> <li>Windows XP, 32-bit</li> <li>Windows Vista, 32-bit</li> <li>Windows Vista, 64-bit</li> <li>Windows 7, 32-bit</li> <li>Windows 7, 64-bit</li> </ul>
Software requirements	<ul style="list-style-type: none"> <li>Office 2007 (32-bit)</li> <li>Office 2010 (32-bit)</li> </ul>

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)

**P/N: T198586**

© 2015, FLIR Systems, Inc.  
#T198586; r. 23306; en-US

- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: T198584

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198584  
Commit: 25122  
Language: en-US  
Modified: 2015-04-29 09:51  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

FLIR Tools is a software suite specifically designed to provide an easy way to update your camera and create inspection reports.

#### Key features:

- Report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR).
- Manual IR/Visual Image Grouping
- Import images from your camera to your computer.
- Apply filters when searching for images.
- Search all text in images and text annotations.
- Store the five latest search criteria's.
- Lay out, move, and resize measurement tools on any infrared image.
- Create PDF imagesheets of any images of your choice.
- Add headers, footers, and logos to imagesheets.
- Create PDF reports for images of your choice.
- Add headers, footers, and logos to reports.
- Report editor (report page preview and snap to grid).
- Sort function (by date, groups sorted by path, and groups sorted by date).
- Browse and purchase infrared cameras, software, and accessories in the webshop.
- Software localized to 21 languages.
- Support for MSX (Multi-Spectral Dynamic Imaging ) Images
- Support for Sketch Images on both IR and Visual with toggling ON/OFF feature.
- Support for Same FOV ( Field of View Match )
- Display of Compass Information in Edit and in Report.
- Display of GPS Information in Edit and in Report.
- Microsoft Windows 7 (32- and 64-bit) and Windows 8 (32- and 64-bit)
- Camera update (applies to FLIR Ex, Kxx, Exx and T6xx series only).

### Download

This software is a freeware. To download, click the following link:

<http://support.flir.com/tools>

### Release notes

Version	5.2
New features in version 5.2	<ul style="list-style-type: none"> <li>• Support for auto-adjusting a region.</li> <li>• Support for zoom.</li> <li>• Various bug fixes.</li> </ul>
New features in version 5.1	<ul style="list-style-type: none"> <li>• Improved import performance.</li> <li>• Added support for video recording settings for FLIR Kxx series.</li> <li>• Added support for importing video files from FLIR Kxx series.</li> <li>• Added support for FLIR C2 camera.</li> <li>• Various bug fixes.</li> </ul>

**P/N: T198584**

© 2015, FLIR Systems, Inc.  
#T198584; r. 25122; en-US

Release notes	
New features in version 5.0	<ul style="list-style-type: none"> <li>Local object parameters for measurement tools.</li> <li>Save a report in-process with the ability to edit at a later time.</li> <li>Pull-down menus for text annotations.</li> <li>Variable playback speed for recordings.</li> <li>Show or hide min./max./avg. temperature, and hot/cold markers, for areas and lines.</li> <li>Smoother display for low-resolution images.</li> <li>UltraMax image enhancement.</li> <li>Dropping support for Windows XP.</li> <li>Various bug fixes.</li> </ul>
New features in version 4.1	<ul style="list-style-type: none"> <li>Previous/next in Edit mode.</li> <li>Clone in the Library.</li> <li>Extract visual photo from a multispectral image.</li> <li>Import *.mp4, *.seq, and *.csq files from the camera.</li> <li>Playback/edit *.seq and *.csq files.</li> <li>Scale enhancement for the FLIR GF3xx series.</li> <li>Auto resize of thumbnails during importing for the FLIR T6xx series.</li> <li>Grouping/ungrouping now added.</li> <li>Various bug fixes.</li> </ul>
New features in version 4.0	<ul style="list-style-type: none"> <li>Support for the new FLIR Ex and Exx series cameras.</li> <li>Interactive quick start guide when connecting a FLIR camera.</li> <li>Improved library view.</li> <li>Support for multispectral images.</li> <li>Support for auto-oriented images.</li> <li>Various bug fixes.</li> </ul>
New features in version 3.1	<ul style="list-style-type: none"> <li>Support for FLIR K series cameras.</li> <li>Interactive quick start guide when connecting a FLIR K series camera.</li> <li>Live image streaming from FLIR K series cameras.</li> <li>PC-side configuration of FLIR K series cameras.</li> <li>New report templates for DC images only added.</li> <li>Various bug fixes.</li> </ul>
New features in version 3.0	<ul style="list-style-type: none"> <li>Add folder to library.</li> <li>Support for isotherms and color alarms</li> <li>Image description for both IR and DC.</li> <li>Export functionality (*.avi, *.csv).</li> <li>Microsoft Windows 8 (32- and 64-bit)</li> <li>New web installer</li> <li>Various bug fixes.</li> </ul>
New features in version 2.2	<ul style="list-style-type: none"> <li>Camera tab: <ul style="list-style-type: none"> <li>Logging feature in Camera Tab</li> <li>Recording and playback of SEQ files.</li> </ul> </li> <li>Various bug fixes.</li> </ul>
New features in version 2.1	<ul style="list-style-type: none"> <li>New Text Comment Template Tab: <ul style="list-style-type: none"> <li>Create, Edit and Transfer templates to and from any FLIR Camera.</li> <li>Import and Export of Templates.</li> </ul> </li> <li>Support for MSX (Multi-Spectral Dynamic Imaging ) Images</li> <li>Support for Sketch Images on both IR and Visual with toggling ON/OFF feature.</li> <li>Support for Same FOV ( Field of View Match )</li> <li>Display of Compass Information in Edit and in Report.</li> <li>Display of GPS Information in Edit and in Report. <ul style="list-style-type: none"> <li>Direct Link to Google Maps for GPS Tagged images from Report.</li> </ul> </li> <li>Support for 3x5 and 6x5 A-series cameras</li> </ul>

**P/N: T198584**

© 2015, FLIR Systems, Inc.  
#T198584; r. 25122; en-US

Release notes	
New features in version 2.0	<ul style="list-style-type: none"> <li>Camera tab: <ul style="list-style-type: none"> <li>Camera connection with FLIR UVC cameras.</li> <li>Measurement data analysis.</li> <li>Plotting.</li> <li>Snapshot saving with text annotation and plot.</li> </ul> </li> <li>Performance improvement for large reports: can now create reports and imagesheets of up to 200 pages.</li> <li>Various bug fixes.</li> </ul>
New features in version 1.3	<ul style="list-style-type: none"> <li>Import from ix series cameras.</li> <li>Add and remove a form from a group.</li> <li>Text comments are now saved in the infrared image.</li> <li>The indexing engine can create groups from IR, DC, and text annotations when indexing the paths in the watch folder.</li> <li>Arrow tool in the report toolbar.</li> <li>Reorder pages.</li> <li>Text annotations can now be edited in the report.</li> <li>New report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR).</li> <li>New sample images.</li> </ul>
New features in version 1.2 SP1	<ul style="list-style-type: none"> <li>Various bug fixes.</li> </ul>
New features in version 1.2	<ul style="list-style-type: none"> <li>Search function: <ul style="list-style-type: none"> <li>Store the five latest search criterias.</li> <li>Search in all texts in images and text annotations.</li> </ul> </li> <li>Sort function: <ul style="list-style-type: none"> <li>By date.</li> <li>Groups sorted by by path.</li> <li>Groups sorted by date.</li> </ul> </li> <li>Report editor: <ul style="list-style-type: none"> <li>Report page preview.</li> <li>Snap to grid.</li> <li>Various bug fixes.</li> </ul> </li> </ul>
New features in version 1.1 SP1	<ul style="list-style-type: none"> <li>Extension to the camera update functionality.</li> <li>Various bug fixes</li> </ul>
New features in version 1.1	<ul style="list-style-type: none"> <li>Software localized to 21 languages.</li> <li>Camera update. (Exx, T6xx)</li> <li>Option to rotate an infrared image in the infrared editor.</li> </ul>

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Digital download, or</li> <li>CD-ROM</li> </ul>
Packaging, weight	0.106 kg (0.23 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005279
UPC-12	845188005481
Country of origin	Sweden

System requirements	
Operating system	<ul style="list-style-type: none"> <li>Windows XP, 32-bit</li> <li>Windows Vista, 32-bit</li> <li>Windows 7, 32-bit</li> <li>Windows 7, 64-bit</li> <li>Windows 8, 32-bit</li> <li>Windows 8, 64-bit</li> </ul>



**P/N: T198584**

© 2015, FLIR Systems, Inc.  
#T198584; r. 25122; en-US

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm

**P/N: T198584**

© 2015, FLIR Systems, Inc.  
#T198584; r. 25122; en-US

- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

**P/N: T198584**

© 2015, FLIR Systems, Inc.  
#T198584; r. 25122; en-US

- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72001-0101; FLIR C2

**P/N: T198583**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: T198583  
Commit: 25121  
Language: en-US  
Modified: 2015-04-29 09:50  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Compared to FLIR Tools, FLIR Tools+ has the following features:	
<ul style="list-style-type: none"> <li>• Radiometric Panorama incl. MSX</li> <li>• Radiometric IR Video Recording</li> <li>• Advanced Reporting</li> </ul>	
FLIR Tools/Tools+ is a software suite specifically designed to provide an easy way to update your camera and create inspection reports.	
FLIR Tools+ main features:	
<ul style="list-style-type: none"> <li>• Manual IR/Visual Image Grouping</li> <li>• Radiometric Panorama incl. MSX</li> <li>• Radiometric IR Video Recording</li> <li>• Advanced Reporting - Microsoft Office 2007 (32bit), and 2010 (32bit) support</li> <li>• Report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR).</li> <li>• Import images from your camera to your computer.</li> <li>• Apply filters when searching for images.</li> <li>• Search all text in images and text annotations.</li> <li>• Store the five latest search criteria's.</li> <li>• Lay out, move, and resize measurement tools on any infrared image.</li> <li>• Create PDF imagesheets of any images of your choice.</li> <li>• Add headers, footers, and logos to imagesheets.</li> <li>• Create PDF reports for images of your choice.</li> <li>• Add headers, footers, and logos to reports.</li> <li>• Report editor (report page preview and snap to grid).</li> <li>• Sort function (by date, groups sorted by path, and groups sorted by date).</li> <li>• Browse and purchase infrared cameras, software, and accessories in the webshop.</li> <li>• Software localized to 21 languages.</li> <li>• Support for MSX (Multi-Spectral Dynamic Imaging ) Images</li> <li>• Support for Sketch Images on both IR and Visual with toggling ON/OFF feature.</li> <li>• Support for Same FOV ( Field of View Match )</li> <li>• Display of Compass Information in Edit and in Report.</li> <li>• Display of GPS Information in Edit and in Report.</li> <li>• Microsoft Windows 7 (32- and 64-bit) and Windows 8 (32- and 64-bit)</li> <li>• Camera update (applies to FLIR Ex, Kxx, Exx and T6xx series only).</li> </ul>	
Download	
Download a 30-day evaluation version here:	
<a href="http://support.flir.com/toolsplus">http://support.flir.com/toolsplus</a>	
Release notes	
Version	5.2
New features in version 5.2	<ul style="list-style-type: none"> <li>• Support for auto-adjusting a region.</li> <li>• Support for zoom.</li> <li>• Express Microsoft Word reporting (*.docx).</li> <li>• Various bug fixes.</li> </ul>

**P/N: T198583**

© 2015, FLIR Systems, Inc.  
#T198583; r. 25121; en-US

Release notes	
New features in version 5.1	<ul style="list-style-type: none"><li>Improved import performance.</li><li>Added support for video recording settings for FLIR Kxx series.</li><li>Added support for importing video files from FLIR Kxx series.</li><li>Added support for FLIR C2 camera.</li><li>Various bug fixes.</li></ul>
New features in version 5.0	<ul style="list-style-type: none"><li>Local object parameters for measurement tools.</li><li>Save a report in-process with the ability to edit at a later time.</li><li>Pull-down menus for text annotations.</li><li>Variable playback speed for recordings.</li><li>Show or hide min./max./avg. temperature, and hot/cold markers, for areas and lines.</li><li>Smoother display for low-resolution images.</li><li>UltraMax image enhancement.</li><li>Dropping support for Windows XP.</li><li>Various bug fixes.</li></ul>
New features in version 4.1	<ul style="list-style-type: none"><li>Previous/next in Edit mode.</li><li>Clone in the Library.</li><li>Extract visual photo from a multispectral image.</li><li>Import *.mp4, *.seq, and *.csq files from the camera.</li><li>Playback/edit *.seq and *.csq files.</li><li>Scale enhancement for the FLIR GF3xx series.</li><li>Auto resize of thumbnails during importing for the FLIR T6xx series.</li><li>Grouping/ungrouping now added.</li><li>Various bug fixes.</li></ul>
New features in version 4.0	<ul style="list-style-type: none"><li>Support for the new FLIR Ex and Exx series cameras.</li><li>Interactive quick start guide when connecting a FLIR camera.</li><li>Improved library view.</li><li>Support for multispectral images.</li><li>Support for auto-oriented images.</li><li>Various bug fixes.</li></ul>
New features in version 3.1	<ul style="list-style-type: none"><li>Support for FLIR K series cameras.</li><li>Interactive quick start guide when connecting a FLIR K series camera.</li><li>Live image streaming from FLIR K series cameras.</li><li>PC-side configuration of FLIR K series cameras.</li><li>New report templates for DC images only added.</li><li>Various bug fixes.</li></ul>
New features in version 3.0	<ul style="list-style-type: none"><li>Add folder to library.</li><li>Support for isotherms and color alarms</li><li>Image description for both IR and DC.</li><li>Export functionality (*.avi, *.csv).</li><li>Microsoft Windows 8 (32- and 64-bit)</li><li>New web installer</li><li>Radiometric panorama with MSX images.</li><li>Advanced reports.</li><li>Manual grouping/ungrouping of images.</li><li>Various bug fixes.</li></ul>
New features in version 2.2	<ul style="list-style-type: none"><li>Camera tab:<ul style="list-style-type: none"><li>Logging feature in Camera Tab</li><li>Recording and playback of SEQ files.</li></ul></li><li>Various bug fixes.</li></ul>
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"><li>FLIR Tools+ scratchcard</li></ul>
Packaging, weight	0.059 kg (0.13 lb.)

**P/N: T198583**

© 2015, FLIR Systems, Inc.  
#T198583; r. 25121; en-US

Shipping information	
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	73325585378 4743254001442 (Estonia plant)
UPC-12	845188005580
Country of origin	Sweden
System requirements	
Operating system	<ul style="list-style-type: none"> <li>Windows XP, 32-bit</li> <li>Windows Vista, 32-bit</li> <li>Windows 7, 32-bit</li> <li>Windows 7, 64-bit</li> <li>Windows 8, 32-bit</li> <li>Windows 8, 64-bit</li> </ul>
Software requirements	<ul style="list-style-type: none"> <li>Office 2007, 32-bit</li> <li>Office 2010, 32-bit</li> <li>Office 2013, 32-bit</li> </ul>

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)

**P/N: T198583**

© 2015, FLIR Systems, Inc.  
#T198583; r. 25121; en-US

- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens

**P/N: T198583**

© 2015, FLIR Systems, Inc.  
#T198583; r. 25121; en-US

- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 63901-0101; FLIR E4
- 63905-0501; FLIR E5
- 63902-0202; FLIR E6
- 63903-0303; FLIR E8



## P/N: DSW-10000

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: DSW-10000  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

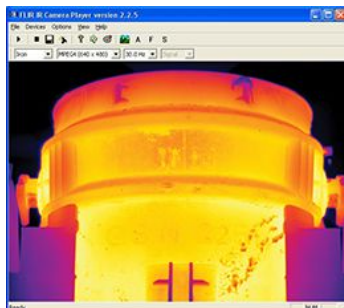
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

FLIR IR Camera Player is a PC-based remote control and viewer that you can use with cameras from FLIR Systems.

You can perform one or more of the following with FLIR IR Camera Player:

- Record a video stream from the camera.
- Save a frame from the video stream as a snapshot image (\*.bmp).
- Autofocus, focus far, and focus near.
- Autoadjust the camera image.
- Freeze the camera image.
- Save a camera image in the camera.
- Change Color palette.
- Add an image description and a text comment to an image.

You connect a camera in one of the following ways:

- Ethernet
- FireWire
- USB

### Download

This software is a freeware. To download, click the following link:

<http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=89>

### Release notes

Version	2.3.3
New features	<p>Main improvements in version 2.3.3:</p> <ul style="list-style-type: none"> <li>• Added latest device drivers (1.9.1.0).</li> <li>• Various bugfixes</li> </ul> <p>Main improvements in version 2.2.7:</p> <ul style="list-style-type: none"> <li>• Added support for FLIR Ax5 series.</li> </ul>

### System requirements

Operating system	<ul style="list-style-type: none"> <li>• Windows XP, 32-bit</li> <li>• Windows Vista, 32-bit/64-bit</li> <li>• Windows 7, 32-bit/64-bit</li> </ul>
------------------	--

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)

**P/N: DSW-10000**

© 2015, FLIR Systems, Inc.  
#DSW-10000; r. 24597; en-US

- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc

**P/N: DSW-10000**

© 2015, FLIR Systems, Inc.  
#DSW-10000; r. 24597; en-US

- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)



---

**P/N: DSW-10000**

© 2015, FLIR Systems, Inc.  
#DSW-10000; r. 24597; en-US

- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: APP-10002

### Copyright

© 2015, FLIR Systems, Inc.

All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: APP-10002

Commit: 24597

Language: en-US

Modified: 2015-04-09 13:38

Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.

27700 SW Parkway Ave.

Wilsonville, OR 97070

USA

Telephone: +1-503-498-3547

### Website

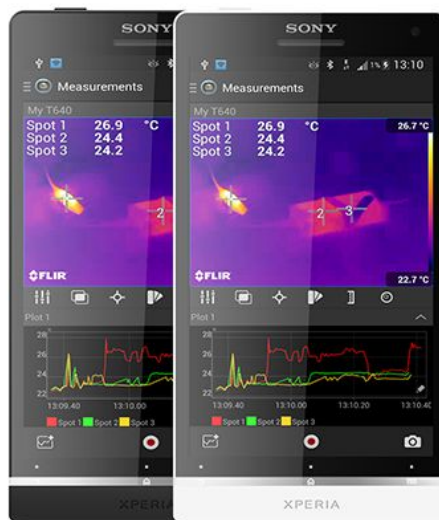
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

FLIR Tools Mobile is an intuitive Android app for analyzing, managing, and distributing infrared images.

#### Key features:

- Remote control
- MSX
- Images with sketch on DC and IR
- Images with field of view follow
- Editable text comments
- Emissivity table
- Import images from your Wi-Fi-enabled camera.
- Connect and stream infrared images from the camera.
- Connect and stream measurement data from FLIR Test & Measurement meters
- Lay out and move measurement tools on the image.
- Read out temperature measurements.
- Create and configure temporal plots based on results of measurement tools on the infrared image.
- Log measurement data and export it as a \*.csv file.
- Save a measurement scenario as a data snapshot.
- Zoom in on images.
- On the Android device, remotely take snapshots when a camera is connected.
- On the camera, take snapshots that will automatically be saved on the Android device.
- Delete images on the Android device.
- Display an image's GPS coordinates on Google Maps.
- Create and e-mail reports.
- Save images in the Android device photo library.
- Send images to FTP sites and other file-sharing services (Dropbox, Box.net, etc.).
- Display image information, e.g., object parameters, text comments, and file details.
- Play back voice comments.
- Change the level and span.
- Change general settings in the app.
- Change the palette.

### Download

The application can be downloaded from Android Market or Amazon Marketplace, see the link below.

<https://market.android.com/details?id=com.flir.viewer>

**P/N: APP-10002**

© 2015, FLIR Systems, Inc.  
#APP-10002; r. 24597; en-US

Release notes	
Version	3.4.0
New features	<p>Main improvements in version 3.4.0:</p> <ul style="list-style-type: none"> <li>• Support for *.csq files.</li> <li>• Various bug fixes.</li> </ul> <p>Main improvements in version 3.2.0:</p> <ul style="list-style-type: none"> <li>• Receive data logs from FLIR DM93.</li> <li>• Save or export data logs in new *.csv format.</li> <li>• Various bug fixes.</li> </ul> <p>Main improvements in version 3.1.0:</p> <ul style="list-style-type: none"> <li>• Added variable level of MSX alpha</li> <li>• Added Fusion Blending mode for images with possibility to adjust level</li> <li>• Stability fixes</li> <li>• Improved memory management</li> <li>• Modified internal handling of measurement results and displaying them.</li> </ul>
System requirements	
Operating system	<ul style="list-style-type: none"> <li>• Android 2.3 and later</li> </ul>

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)

**P/N: APP-10002**

© 2015, FLIR Systems, Inc.  
#APP-10002; r. 24597; en-US

- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: APP-10003

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: APP-10003  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

FLIR Tools Mobile lets professional thermographers use an iPad, iPhone, or iPod touch to see and capture live, streaming infrared video and stills from select FLIR cameras.

With FLIR Tools Mobile the camera can be stationed in one area and operated wirelessly from another – highly useful for IR inspections of energized equipment or performing IR surveys in hard-to-reach locations and harsh working environments. Streaming video and remote access also gives decision makers and others on your team a valuable opportunity to observe and collaborate in the thermal imaging process.

Using FLIR Tools Mobile, you can do one or more of the following:

- Import images from your infrared camera
- Lay out and move measurement tools on the image
- Read out temperature measurements
- Zoom in on images
- On the iPhone/iPad, remotely take snapshots when a camera is connected
- On the camera, take snapshots that will automatically be saved in the iPhone/iPad
- Delete any images on the iPhone/iPad
- Display an image's GPS coordinates on Google Maps
- Create and e-mail imagesheets
- Create and e-mail reports
- Print imagesheets and reports to any AirPrint-enabled printer
- Save images to iPhone/iPad photo library
- Send images to FTP sites and other file sharing services (Dropbox, Box.net, etc.)
- Display image information, such as object parameters, text comments, file information, etc.
- Play-back voice comments
- Change level and span
- Change general settings in the app
- Change palette



**P/N: APP-10003**

© 2015, FLIR Systems, Inc.  
#APP-10003; r. 24597; en-US

General description	
FLIR Tools Mobile lets you take control of the following features on selected cameras:	
<ul style="list-style-type: none"> <li>Remote control of your FLIR camera.</li> <li>Support for MSX (Multi-Spectral Dynamic Imaging) images.</li> <li>Support for sketch images in both IR and visual with on/off toggling.</li> <li>Support for same FOV ("Field of View Match").</li> <li>Editable text comments.</li> <li>Auto and manual focus</li> <li>Level and span</li> <li>Color palettes</li> <li>Temperature measurement analytics</li> <li>Spot</li> <li>Area box</li> <li>Circle</li> <li>Line</li> <li>Parameter settings</li> <li>Emissivity</li> <li>Reflected temperature</li> <li>Relative humidity</li> <li>Atmospheric temperature</li> <li>IR and visible light image blending</li> <li>Picture-in-picture</li> <li>Thermal fusion</li> <li>Image storage</li> <li>MPEG 4 video</li> <li>Radiometric JPEG stills</li> </ul>	
Download	
The application can be downloaded from App Store, see the link below.	
<a href="http://itunes.apple.com/app/flir-tools/id511247887?mt=8">http://itunes.apple.com/app/flir-tools/id511247887?mt=8</a>	
Release notes	
Version	1.5.0
New features	<p>Main improvements in version 1.5.0:</p> <ul style="list-style-type: none"> <li>Updated for iOS7.</li> <li>Improved Library.</li> </ul> <p>Main improvements in version 1.3.2:</p> <ul style="list-style-type: none"> <li>Added remote viewer mode for T4xx and Exx series.</li> <li>Improved support for anonymous FTP server.</li> <li>Improved image import from photo gallery.</li> </ul> <p>Main improvements in version 1.3:</p> <ul style="list-style-type: none"> <li>Support for fusion images.</li> <li>Marking fusion images with the stacked icon in the library browser.</li> <li>Switching image modes while editing fusion images.</li> <li>Switch between fusion IR/DC and grouped images during preview.</li> <li>Support for landscape and portrait images.</li> <li>Image parameters can be modified only in edit mode.</li> <li>Support for FLIR Exx-series cameras.</li> </ul>
System requirements	
Operating system	<ul style="list-style-type: none"> <li>iOS 4.0 or later</li> </ul>
Hardware requirements	<ul style="list-style-type: none"> <li>iPhone</li> <li>iPad</li> <li>iPod</li> </ul>

**Compatible with the following products**

- N/A

## P/N: APP-10004

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: APP-10004  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

FLIR Tools is a software specifically designed to provide an easy way to analyze infrared images and create inspection reports.

Using FLIR Tools, you can do one or more of the following:

- Import images from your camera to your computer.
- Search for images.
- Lay out, move, and resize measurement tools on any infrared image.
- Create PDF reports for images of your choice.
- Add headers, footers, and logos to reports.
- Create new report templates.

FLIR Tools lets you take control of the following features on selected cameras:

- Connect an infrared camera to FLIR Tools and display its live image stream.
- When the camera is connected, lay out measurement tools, change parameters, create plots, etc.

### Download

The application can be downloaded from Mac App Store, see the link below.

<https://itunes.apple.com/app/flir-tools/id579348845?mt=12>

### Release notes

Version	2.1
New features	<p>Main improvements in version 2.1:</p> <ul style="list-style-type: none"> <li>• Support for thermal blending.</li> <li>• Support for groups and multispectral images.</li> <li>• Improved stability.</li> </ul> <p>Main improvements in version 2.0:</p> <ul style="list-style-type: none"> <li>• Connect an infrared camera to FLIR Tools and display its live image stream.</li> <li>• When the camera is connected, lay out measurement tools, change parameters, create plots, etc.</li> <li>• Create new report templates.</li> <li>• Various bug fixes.</li> </ul>

### System requirements

Operating system	• OS X 10.7 or later,
Hardware requirements	• MacOS

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)

**P/N: APP-10004**

© 2015, FLIR Systems, Inc.  
#APP-10004; r. 24597; en-US

- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

**P/N: T199812**

**Copyright**

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

**Document identity**

Publ. No.: T199812  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

**Corporate Headquarters**

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

**Website**

<http://www.flir.com>

**Customer support**

<http://support.flir.com>

**Disclaimer**

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



**General description**

The Extended Warranty Package covers parts and labour for your IR camera, consumables not included.

FLIR Systems warrants its products to be free from defects caused by faulty material or poor workmanship, for a period specified above. NO PRODUCT IS WARRANTED TO BE MERCHANTABLE OR FIT FOR ANY PARTICULAR USE OR APPLICATION. The warranty is void if the buyer damages the item due to misuse, abuse, modification, processing, or integration with other items. FLIR Systems' maximum liability under this warranty is limited to the obligation to replace or, at its sole option, to credit Buyer's account up to the purchase price.

**Download**

Contact info can be found at:

<http://support.flir.com>

**Compatible with the following products**

- N/A

## P/N: T199828

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T199828  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

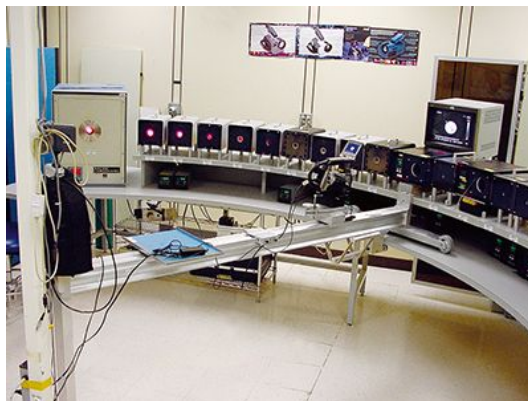
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

General Maintenance package offers a complete 14 points inspection and calibration service (for one lens combination). Shipping cost not included.

#### 14-point inspection program:

- Perform a complete operational check.
- Fusion calibration and laser alignment, when applicable.
- Verify all internal cable and PCB connections.
- Clean the viewfinder and check the optics.
- Upgrade the internal camera software to the latest revisions.
- Perform minor repairs.
- Verify and/or re-equalize as needed each temperature range for image uniformity.
- Verify standard lens calibration (optional: other or specially engineered lenses).
- Verify ambient temperature compensation as needed.
- Recalibration to ensure factory specifications are met.
- Calibrate temperature ranges up to +1500°C, when applicable.
- Perform a quality-approved acceptance test procedure.
- Provide a calibration label with the next due date.
- Provide a calibration certificate (optional: extended calibration certificate with measured values).

### Download

Contact info can be found at:

<http://support.flir.com>

### Compatible with the following products

- N/A

## P/N: ITC-FEE-0120

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-FEE-0120  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Certification DIN EN ISO 9712 TT Category 1	
Course information	
Available languages	DACH only
Course details	
Duration	1 day

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)

**P/N: ITC-FEE-0120**

© 2015, FLIR Systems, Inc.

#ITC-FEE-0120; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5



## P/N: ITC-CER-6101

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-6101  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
DIN EN ISO 9712 TT Category 1 Certification course, excl. Certification, 1 pers.	
Course information	
Available languages	DACH only
Course details	
Duration	5 days

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)



---

**P/N: ITC-CER-6101**

© 2015, FLIR Systems, Inc.

#ITC-CER-6101; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-CER-6109

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-6109  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

DIN EN ISO 9712 TT Category 1 Certification course, excl. Certification, group up to 10 pers.

### Course information

Available languages	DACH only
---------------------	-----------

### Course details

Duration	5 days
----------	--------

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)

---

**P/N: ITC-CER-6109**

© 2015, FLIR Systems, Inc.

#ITC-CER-6109; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-ADV-3011

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3011  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course bridges the gap between IR thermography, background science and application theory. The participant will learn the physical concepts of heat transfer and apply them together with relevant building science. After the course, the participant will be able to do a qualified building inspection on the base of existing laws, standards, and regulations.

Note: This course refers mainly to European building standards. Please consult ITC before selling it in other countries.

### Content

- Introduction and refresher of IR basics
- Thermal transfer and wall structures
- Insulating materials
- Humidity, moisture, and the dew point
- Air leaks, pressure profiles, and air permeability
- Survey methodology

### Labs

- Outside inspection
- Air permeability test (with Blower Door)
- Reporting

### Course information

Available languages	English
Target group	<ul style="list-style-type: none"> <li>• Professional users in building applications who want to become experts in Building Thermography.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Knows how to operate the camera</li> <li>• Knows how to report</li> <li>• Has a background in a building profession, but rather moderate experience in IR or has experience in another IR application field but rather moderate knowledge in building science</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Valid Level 1 thermography certificate</li> <li>• IR related education and experience</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Knowledge of building techniques</li> <li>• Bring own PC for calculations and exercises</li> </ul>

**P/N: ITC-ADV-3011**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3011; r. 23306; en-US

Course details	
Duration	3 days (24 hours)
Structure	Theory takes place in the mornings, practical labs, calculations, and software exercises are scheduled for the afternoons.
Exam	A final test (20 multiple choice questions) will be written on the 3rd day in the afternoon. In connection, the correct answers will be discussed by the instructor and the participants.
Course fee includes	<ul style="list-style-type: none"><li>• Tuition by ITC licensed instructor</li><li>• Training material in printed format</li><li>• Refreshments</li><li>• Diploma of attendance</li><li>• Attendance of 1 person</li><li>• Might include more, such as lunch, depending on location and organizing entity</li></ul>
Course organization	
ITC	The Advanced Building Course is offered worldwide by ITC as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC.
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach the Advanced Building Course.

**Compatible with the following products**

- N/A

## P/N: ITC-ADV-3019

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3019  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course bridges the gap between IR thermography, background science and application theory. The participant will learn the physical concepts of heat transfer and apply them together with relevant building science. After the course, the participant will be able to do a qualified building inspection on the base of existing laws, standards, and regulations.

Note: This course refers mainly to European building standards. Please consult ITC before selling it in other countries.

### Content

- Introduction and refresher of IR basics
- Thermal transfer and wall structures
- Insulating materials
- Humidity, moisture, and the dew point
- Air leaks, pressure profiles, and air permeability
- Survey methodology

### Labs

- Outside inspection
- Air permeability test (with Blower Door)
- Reporting

### Course information

Available languages	English
Target group	<ul style="list-style-type: none"> <li>• Professional users in building applications who want to become experts in Building Thermography.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Knows how to operate the camera</li> <li>• Knows how to report</li> <li>• Has a background in a building profession, but rather moderate experience in IR or has experience in another IR application field but rather moderate knowledge in building science</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Valid Level 1 thermography certificate</li> <li>• IR related education and experience</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Knowledge of building techniques</li> <li>• Bring own PC for calculations and exercises</li> </ul>

**P/N: ITC-ADV-3019**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3019; r. 23306; en-US

Course details	
Duration	3 days (24 hours)
Structure	Theory takes place in the mornings, practical labs, calculations, and software exercises are scheduled for the afternoons.
Exam	A final test (20 multiple choice questions) will be written on the 3rd day in the afternoon. In connection, the correct answers will be discussed by the instructor and the participants.
Course fee includes	<ul style="list-style-type: none"><li>• Tuition by ITC licensed instructor</li><li>• Training material in printed format</li><li>• Refreshments</li><li>• Diploma of attendance</li><li>• Attendance of a group up to 10 persons</li><li>• Might include more, such as lunch, instructor's travel expenses, etc. depending on location and organizing entity</li></ul>
Course organization	
ITC	The Advanced Building Course is offered worldwide by ITC as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC.
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach the Advanced Building Course.

**Compatible with the following products**

- N/A

## P/N: ITC-ADV-3021

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3021  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This interdisciplinary course bridges the gap between IR thermography, background science and application theory. Being an overview course it deals with three main application fields of thermography: electrical, industrial, and building. For every application the participant will learn about the specific theory, typical faults, and how to detect them with a thermography camera. The student will also learn about the basics of condition monitoring, and maintenance.

Examples and case studies from the real world illustrate the course content and are discussed with the participants. Participants will be trained in discovering and identifying typical faults by typical thermal patterns.

### Content

- Introduction
- Electrical Applications (current, voltage, resistance, electrical systems, Ohm's law, some important properties of materials, typical faults, surveying methodology and criteria, safety, voltage limits)
- Industrial Applications (bearings, pumps, gears, belts, misalignment and couplings, gaskets, seals, rings, glands, steam traps, furnaces)
- Building Applications (definition of the building envelope, steady state thermal transfer in a building envelope, transient thermal transfer in a building envelope, applications)

### Course information

Available languages	
English	
Target group	
<ul style="list-style-type: none"> <li>• Professional thermographers holding a Level 1 or a Level 2 certificate and</li> <li>• with interest in increasing their knowledge of different thermographic applications, and their limitations or</li> <li>• with a special interest in condition monitoring of machines</li> </ul>	
Typical student	
<ul style="list-style-type: none"> <li>• Knows how to operate the camera</li> <li>• Knows how to report</li> <li>• Works in the industry with e.g. maintenance and condition monitoring or is a consultant</li> </ul>	
Pre-requisites	
<ul style="list-style-type: none"> <li>• Valid Level 1 thermography certificate</li> <li>• IR related education and experience</li> </ul>	



**P/N: ITC-ADV-3021**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3021; r. 23306; en-US

Course details	
Duration	3 days (24 hours)
Structure	The course is divided into the three parts: Electrical Applications, Industrial Applications, and Building Applications. Theory sessions and case studies including interactive discussions alternate.
Exam	A final exam (30 multiple choice questions) will be written on the 3d day in the afternoon. In connection, the correct answers will be discussed by the instructor and the participants.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Attendance of 1 person</li> <li>• Might include more, such as lunch, depending on location and organizing entity</li> </ul>
Course organization	
ITC	The Advanced General Thermography Course is offered worldwide by ITC as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary.
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Advanced General Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)

**P/N: ITC-ADV-3021**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3021; r. 23306; en-US

- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC

---

**P/N: ITC-ADV-3021**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3021; r. 23306; en-US

- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-ADV-3029

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3029  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This interdisciplinary course bridges the gap between IR thermography, background science and application theory. Being an overview course it deals with three main application fields of thermography: electrical, industrial, and building. For every application the participant will learn about the specific theory, typical faults, and how to detect them with a thermography camera. The student will also learn about the basics of condition monitoring, and maintenance.

Examples and case studies from the real world illustrate the course content and are discussed with the participants. Participants will be trained in discovering and identifying typical faults by typical thermal patterns.

### Content

- Introduction
- Electrical Applications (current, voltage, resistance, electrical systems, Ohm's law, some important properties of materials, typical faults, surveying methodology and criteria, safety, voltage limits)
- Industrial Applications (bearings, pumps, gears, belts, misalignment and couplings, gaskets, seals, rings, glands, steam traps, furnaces)
- Building Applications (definition of the building envelope, steady state thermal transfer in a building envelope, transient thermal transfer in a building envelope, applications)

### Course information

Available languages	
English	
Target group	
<ul style="list-style-type: none"> <li>• Professional thermographers holding a Level 1 or a Level 2 certificate and</li> <li>• with interest in increasing their knowledge of different thermographic applications, and their limitations or</li> <li>• with a special interest in condition monitoring of machines</li> </ul>	
Typical student	
<ul style="list-style-type: none"> <li>• Knows how to operate the camera</li> <li>• Knows how to report</li> <li>• Works in the industry with e.g. maintenance and condition monitoring or is a consultant</li> </ul>	
Pre-requisites	
<ul style="list-style-type: none"> <li>• Valid Level 1 thermography certificate</li> <li>• IR related education and experience</li> </ul>	

**P/N: ITC-ADV-3029**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3029; r. 23306; en-US

Course details	
Duration	3 days (24 hours)
Structure	The course is divided into the three parts: Electrical Applications, Industrial Applications, and Building Applications. Theory sessions and case studies including interactive discussions alternate.
Exam	A final exam (30 multiple choice questions) will be written on the 3d day in the afternoon. In connection, the correct answers will be discussed by the instructor and the participants.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Attendance of a group up to 10 persons</li> <li>• Might include more, such as lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	The Advanced General Thermography Course is offered worldwide by ITC as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary.
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Advanced General Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)

**P/N: ITC-ADV-3029**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3029; r. 23306; en-US

- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL

---

**P/N: ITC-ADV-3029**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3029; r. 23306; en-US

- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-CON-1001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CON-1001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

ITC conference fee

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)



**P/N: ITC-CON-1001**

© 2015, FLIR Systems, Inc.

#ITC-CON-1001; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-CON-1001**

© 2015, FLIR Systems, Inc.

#ITC-CON-1001; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-EXP-0511

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-0511  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

ITC Getting Started with Thermography - attendance, 1 pers.

### Course information

Available languages	DE, FR, IT, NL, SE
---------------------	--------------------

### Course details

Duration	4 hours
----------	---------

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)



---

**P/N: ITC-EXP-0511**

© 2015, FLIR Systems, Inc.

#ITC-EXP-0511; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-EXP-0521

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-0521  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
ITC Getting Started with Thermography (evening or weekend) - attendance, 1 pers.	
Course information	
Available languages	DE, FR, IT, NL, SE
Course details	
Duration	4 hours

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)

---

**P/N: ITC-EXP-0521**

© 2015, FLIR Systems, Inc.

#ITC-EXP-0521; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-EXP-1021

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1021  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
An on-site training can be customized upon your needs. The participants will learn about IR thermography, inspections, measurements, applications, and reporting corresponding to the level needed for performing measurements and inspection in their working environment. The trainer will give useful advice on how to best implement IR thermography in your business.	
This partnumber is reserved for adding additional students to an on site class.	
Content	
<ul style="list-style-type: none"> <li>An on-site course can be any course, from a 1-day introduction to general thermography, over a customized application course to a complete certification course.</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Portable classroom labs</li> <li>Field training on the site in agreement with the customer</li> </ul>	
Course information	
Available languages	English, Dutch, German, French, Italian, Spanish, Swedish, other languages upon request
Target group	<ul style="list-style-type: none"> <li>Employees of a company or certain departments who would like to minimize travel costs and receive the training directly on their daily working site.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>
Course details	
Duration	Customized or according to the kind of course the in-house training is equivalent to.
Structure	Theory, camera handling, demos, practical labs and field training alternate.

**P/N: ITC-EXP-1021**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1021; r. 23306; en-US

Course details	
Exam	Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> </ul>
Course organization	
ITC	ITC In-house courses are offered worldwide by ITC and partners as listed. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	ITC In-house courses are lectured by ITC qualified instructors with experience in the relevant fields of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm



**P/N: ITC-EXP-1021**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1021; r. 23306; en-US

- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°

**P/N: ITC-EXP-1021**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1021; r. 23306; en-US

- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-1029

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1029  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
An on-site training can be customized upon your needs. The participants will learn about IR thermography, inspections, measurements, applications, and reporting corresponding to the level needed for performing measurements and inspection in their working environment. The trainer will give useful advice on how to best implement IR thermography in your business.	
Content	
<ul style="list-style-type: none"> <li>An on-site course can be any course, from a 1-day introduction to general thermography, over a customized application course to a complete certification course.</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Portable classroom labs</li> <li>Field training on the site in agreement with the customer</li> </ul>	
Course information	
Available languages	English, Dutch, German, French, Italian, Spanish, Swedish, other languages upon request
Target group	<ul style="list-style-type: none"> <li>Employees of a company or certain departments who would like to minimize travel costs and receive the training directly on their daily working site.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>
Course details	
Duration	Customized or according to the kind of course the in-house training is equivalent to.
Structure	Theory, camera handling, demos, practical labs and field training alternate.
Exam	Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.

**P/N: ITC-EXP-1029**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1029; r. 23306; en-US

Course details	
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> </ul>
Note	Course fee does not include cost for instructor's travelling or lodging. When organized at the customers' site, the customer is responsible for providing a suitable classroom and preferably also refreshments/lunch.
Course organization	
ITC	ITC In-house courses are offered worldwide by ITC and partners as listed. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	ITC In-house courses are lectured by ITC qualified instructors with experience in the relevant fields of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)

**P/N: ITC-EXP-1029**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1029; r. 23306; en-US

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL

**P/N: ITC-EXP-1029**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1029; r. 23306; en-US

- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-CER-5105

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5105  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 1 certified thermographer. The participant will learn about the basics of infrared, how to operate the camera under different conditions and for various purposes, how to do an appropriate judgement of the measurement situation in the field and how to identify potential error sources. After the class, the participant will be able to do IR inspections following written guidelines and to report the result of this inspection.

This partnumber is reserved for adding additional students to a level 1 on site class.

### Content

- Introduction to Thermography
- Camera Operation
- Basic physics of heat
- Basic physics of infrared
- Thermal pattern recognition and IR applications
- IR temperature measurement techniques
- Qualitative and quantitative thermography
- Inspection routines and reporting

### Student presentations

During the seminar, students will generate a small case study based on the lab exercises to be presented to the class.

### Labs

- Camera handling
- Level and Span
- Conduction pattern
- Forced convection
- Direct and indirect thermal measurement
- Thermal capacity
- Steady state and transient heat flow
- Evaporation and condensation
- Electrical application
- Emissivity and Reflected apparent temperature
- Spatial resolution
- Location and temperature measurement of a hot/cold spot
- Image transfer to the computer

**P/N: ITC-CER-5105**

© 2015, FLIR Systems, Inc.

#ITC-CER-5105; r. 23306; en-US

Course information	
Available languages	Chinese, Danish, Dutch, English, Finish, French, German, Greek, Hebrew, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (bra.), Romanian, Russian, Serbo-Croatian, Spanish, Swedish, Thai
Target group	<ul style="list-style-type: none"> <li>Practical user</li> <li>This course is designed for beginners in thermography with some experience in camera handling and limited IR knowledge, who want to take their first step to become a professional thermographer and want to qualify as a Level 1 certified thermographer.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>having already some basic experience with IR thermography,</li> <li>knowing the basic functions of the camera,</li> <li>who wants to become a certified thermographer in order to gain a competitive advantage or who needs the certifications because of legal reasons or company internal regulations.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Be familiar with the basic operation of an infrared camera</li> <li>Have the recommended experience within thermography according to relevant standards</li> </ul>

Course details	
Duration	35 – 40 hours
Structure	Theory and camera practice (hands-on) alternate every day, additional labs and software exercises at some days.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>Attendance of 1 person</li> <li>Might include more, such as lunch, depending on location and organizing entity</li> </ul>
Note	Only for non-EURO, non-SEK, non NOK, non- £, -non CHF countries

Course organization	
ITC	The Level 1 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)



**P/N: ITC-CER-5105**

© 2015, FLIR Systems, Inc.

#ITC-CER-5105; r. 23306; en-US

- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc

**P/N: ITC-CER-5105**

© 2015, FLIR Systems, Inc.

#ITC-CER-5105; r. 23306; en-US

- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-CER-5101

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5101  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 1 certified thermographer. The participant will learn about the basics of infrared, how to operate the camera under different conditions and for various purposes, how to do an appropriate judgement of the measurement situation in the field and how to identify potential error sources. After the class, the participant will be able to do IR inspections following written guidelines and to report the result of this inspection.

### Content

- Introduction to Thermography
- Camera Operation
- Basic physics of heat
- Basic physics of infrared
- Thermal pattern recognition and IR applications
- IR temperature measurement techniques
- Qualitative and quantitative thermography
- Inspection routines and reporting

### Student presentations

During the seminar, students will generate a small case study based on the lab exercises to be presented to the class.

### Labs

- Camera handling
- Level and Span
- Conduction pattern
- Forced convection
- Direct and indirect thermal measurement
- Thermal capacity
- Steady state and transient heat flow
- Evaporation and condensation
- Electrical application
- Emissivity and Reflected apparent temperature
- Spatial resolution
- Location and temperature measurement of a hot/cold spot
- Image transfer to the computer

**P/N: ITC-CER-5101**

© 2015, FLIR Systems, Inc.

#ITC-CER-5101; r. 23306; en-US

<b>Course information</b>	
Available languages	Chinese, Danish, Dutch, English, Finish, French, German, Greek, Hebrew, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (bra.), Romanian, Russian, Serbo-Croatian, Spanish, Swedish, Thai
Target group	<ul style="list-style-type: none"> <li>• Practical user</li> <li>• This course is designed for beginners in thermography with some experience in camera handling and limited IR knowledge, who want to take their first step to become a professional thermographer and want to qualify as a Level 1 certified thermographer.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>• having already some basic experience with IR thermography,</li> <li>• knowing the basic functions of the camera,</li> <li>• who wants to become a certified thermographer in order to gain a competitive advantage or who needs the certifications because of legal reasons or company internal regulations.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Be familiar with the basic operation of an infrared camera</li> <li>• Have the recommended experience within thermography according to relevant standards</li> </ul>

<b>Course details</b>	
Duration	35 – 40 hours
Structure	Theory and camera practice (hands-on) alternate every day, additional labs and software exercises at some days.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>• Attendance of 1 person</li> <li>• Might include more, such as lunch, depending on location and organizing entity</li> </ul>

<b>Course organization</b>	
ITC	The Level 1 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)

**P/N: ITC-CER-5101**

© 2015, FLIR Systems, Inc.

#ITC-CER-5101; r. 23306; en-US

- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)

**P/N: ITC-CER-5101**

© 2015, FLIR Systems, Inc.

#ITC-CER-5101; r. 23306; en-US

- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-CER-5109

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5109  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 1 certified thermographer. The participant will learn about the basics of infrared, how to operate the camera under different conditions and for various purposes, how to do an appropriate judgement of the measurement situation in the field and how to identify potential error sources. After the class, the participant will be able to do IR inspections following written guidelines and to report the result of this inspection.

### Content

- Introduction to Thermography
- Camera Operation
- Basic physics of heat
- Basic physics of infrared
- Thermal pattern recognition and IR applications
- IR temperature measurement techniques
- Qualitative and quantitative thermography
- Inspection routines and reporting

### Student presentations

During the seminar, students will generate a small case study based on the lab exercises to be presented to the class.

### Labs

- Camera handling
- Level and Span
- Conduction pattern
- Forced convection
- Direct and indirect thermal measurement
- Thermal capacity
- Steady state and transient heat flow
- Evaporation and condensation
- Electrical application
- Emissivity and Reflected apparent temperature
- Spatial resolution
- Location and temperature measurement of a hot/cold spot
- Image transfer to the computer

**P/N: ITC-CER-5109**

© 2015, FLIR Systems, Inc.

#ITC-CER-5109; r. 23306; en-US

Course information	
Available languages	Chinese, Danish, Dutch, English, Finish, French, German, Greek, Hebrew, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (bra.), Romanian, Russian, Serbo-Croatian, Spanish, Swedish, Thai
Target group	<ul style="list-style-type: none"> <li>• Practical user</li> <li>• This course is designed for beginners in thermography with some experience in camera handling and limited IR knowledge, who want to take their first step to become a professional thermographer and want to qualify as a Level 1 certified thermographer.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>• having already some basic experience with IR thermography,</li> <li>• knowing the basic functions of the camera,</li> <li>• who wants to become a certified thermographer in order to gain a competitive advantage or who needs the certifications because of legal reasons or company internal regulations.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Be familiar with the basic operation of an infrared camera</li> <li>• Have the recommended experience within thermography according to relevant standards</li> </ul>

Course details	
Duration	35 – 40 hours
Structure	Theory and camera practice (hands-on) alternate every day, additional labs and software exercises at some days.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>• Attendance of a group up to 10 persons</li> <li>• Might include more, such as lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>

Course organization	
ITC	The Level 1 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)



**P/N: ITC-CER-5109**

© 2015, FLIR Systems, Inc.

#ITC-CER-5109; r. 23306; en-US

- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310

**P/N: ITC-CER-5109**

© 2015, FLIR Systems, Inc.

#ITC-CER-5109; r. 23306; en-US

- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-CER-5205

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5205  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 2 certified thermographer. The participant will learn about topics in infrared thermography to increase the knowledge about infrared physics, heat science, infrared measurement equipment and its application. As a Level 2 thermographer the participant shall provide guidance to category 1 personnel in the areas of equipment selection, techniques, limitations, data analysis, corrective actions and reporting.

This partnumber is reserved for adding additional students to a level 2 on site class.

### Content

- Thermal science
- Heat transfer
- Temperature measurement
- Infrared science
- IR equipment and applications

### Student presentations

During the seminar, students shall present a prepared case study to the class. The maximum duration (excl. discussion) should be 7 minutes and the maximum number of 7 slides should not be exceeded.

### Labs (Note: Labs marked "(M)" are mandatory)

- Newton's law (class lab) (M)
- Advanced emissivity measurement (M)
- Variation of emissivity with the angle (M)
- Transient thermal transfer
- Indirect power measurement (M)
- IR-window transmission (M)
- Slit Response Function
- Hole Response Function (M)
- Parallel circuits

### Course information

#### Available languages

Dutch, English, German, French, Italian, Portuguese (bra.), Spanish, Swedish

#### Target group

- Professional user
- This course is designed for thermographers holding a Level 1 certificate, who want to increase their knowledge about IR thermography and who want to qualify as a Level 2 certified thermographer.

**P/N: ITC-CER-5205**

© 2015, FLIR Systems, Inc.

#ITC-CER-5205; r. 23306; en-US

Course information	
Typical student	<ul style="list-style-type: none"> <li>A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>having several months of professional experience within thermography,</li> <li>versed in camera operation and reporting,</li> <li>holding a Level 1 certificate,</li> <li>who needs the Level 2 Certification for guidance and supervision of other thermographers or is interested in deeper understanding of IR thermography.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Valid Level 1 thermography certificate,</li> <li>Recommended experience within thermography according to relevant standards,</li> <li>Prepared case study to be presented at the Level 2 course and submitted towards qualification at course closing.</li> </ul>

Course details	
Duration	40 hours
Structure	Theory, camera practice (hands-on), and prepared case studies alternate every day.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>Attendance of 1 person</li> <li>Might include more, such as lunch, depending on location and organizing entity.</li> </ul>
Note	Only for non-EURO, non-SEK, non NOK, non- £, -non CHF countries

Course organization	
ITC	The Level 2 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in T560393 Courses offered by ITC partners. Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)

**P/N: ITC-CER-5205**

© 2015, FLIR Systems, Inc.

#ITC-CER-5205; r. 23306; en-US

- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°

**P/N: ITC-CER-5205**

© 2015, FLIR Systems, Inc.

#ITC-CER-5205; r. 23306; en-US

- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-CER-5201

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5201  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 2 certified thermographer. The participant will learn about topics in infrared thermography to increase the knowledge about infrared physics, heat science, infrared measurement equipment and its application. As a Level 2 thermographer the participant shall provide guidance to category 1 personnel in the areas of equipment selection, techniques, limitations, data analysis, corrective actions and reporting.

### Content

- Thermal science
- Heat transfer
- Temperature measurement
- Infrared science
- IR equipment and applications

### Student presentations

During the seminar, students shall present a prepared case study to the class. The maximum duration (excl. discussion) should be 7 minutes and the maximum number of 7 slides should not be exceeded.

### Labs (Note: Labs marked "(M)" are mandatory)

- Newton's law (class lab) (M)
- Advanced emissivity measurement (M)
- Variation of emissivity with the angle (M)
- Transient thermal transfer
- Indirect power measurement (M)
- IR-window transmission (M)
- Slit Response Function
- Hole Response Function (M)
- Parallel circuits

### Course information

Available languages	Dutch, English, German, French, Italian, Portuguese (bra.), Spanish, Swedish
Target group	<ul style="list-style-type: none"> <li>• Professional user</li> <li>• This course is designed for thermographers holding a Level 1 certificate, who want to increase their knowledge about IR thermography and who want to qualify as a Level 2 certified thermographer.</li> </ul>

**P/N: ITC-CER-5201**

© 2015, FLIR Systems, Inc.

#ITC-CER-5201; r. 23306; en-US

Course information	
Typical student	<ul style="list-style-type: none"> <li>A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>having several months of professional experience within thermography,</li> <li>versed in camera operation and reporting,</li> <li>holding a Level 1 certificate,</li> <li>who needs the Level 2 Certification for guidance and supervision of other thermographers or is interested in deeper understanding of IR thermography.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Valid Level 1 thermography certificate,</li> <li>Recommended experience within thermography according to relevant standards,</li> <li>Prepared case study to be presented at the Level 2 course and submitted towards qualification at course closing.</li> </ul>
Course details	
Duration	40 hours
Structure	Theory, camera practice (hands-on), and prepared case studies alternate every day.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>Attendance of 1 person</li> <li>Might include more, such as lunch, depending on location and organizing entity.</li> </ul>
Course organization	
ITC	The Level 2 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in T560393 Courses offered by ITC partners. Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)



**P/N: ITC-CER-5201**

© 2015, FLIR Systems, Inc.

#ITC-CER-5201; r. 23306; en-US

- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°

**P/N: ITC-CER-5201**

© 2015, FLIR Systems, Inc.

#ITC-CER-5201; r. 23306; en-US

- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-CER-5209

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5209  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 2 certified thermographer. The participant will learn about topics in infrared thermography to increase the knowledge about infrared physics, heat science, infrared measurement equipment and its application. As a Level 2 thermographer the participant shall provide guidance to category 1 personnel in the areas of equipment selection, techniques, limitations, data analysis, corrective actions and reporting.

### Content

- Thermal science
- Heat transfer
- Temperature measurement
- Infrared science
- IR equipment and applications

### Student presentations

During the seminar, students shall present a prepared case study to the class. The maximum duration (excl. discussion) should be 7 minutes and the maximum number of 7 slides should not be exceeded.

### Labs (Note: Labs marked "(M)" are mandatory)

- Newton's law (class lab) (M)
- Advanced emissivity measurement (M)
- Variation of emissivity with the angle (M)
- Transient thermal transfer
- Indirect power measurement (M)
- IR-window transmission (M)
- Slit Response Function
- Hole Response Function (M)
- Parallel circuits

### Course information

#### Available languages

Dutch, English, German, French, Italian, Portuguese (bra.), Spanish, Swedish

#### Target group

- Professional user
- This course is designed for thermographers holding a Level 1 certificate, who want to increase their knowledge about IR thermography and who want to qualify as a Level 2 certified thermographer.

**P/N: ITC-CER-5209**

© 2015, FLIR Systems, Inc.

#ITC-CER-5209; r. 23306; en-US

Course information	
Typical student	<ul style="list-style-type: none"> <li>A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>having several months of professional experience within thermography,</li> <li>versed in camera operation and reporting,</li> <li>holding a Level 1 certificate,</li> <li>who needs the Level 2 Certification for guidance and supervision of other thermographers or is interested in deeper understanding of IR thermography.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Valid Level 1 thermography certificate,</li> <li>Recommended experience within thermography according to relevant standards,</li> <li>Prepared case study to be presented at the Level 2 course and submitted towards qualification at course closing.</li> </ul>
Course details	
Duration	40 hours
Structure	Theory, camera practice (hands-on), and prepared case studies alternate every day.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as lunch, instructor's travel expenses, etc. depending on location and organizing entity.</li> </ul>
Course organization	
ITC	The Level 2 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in T560393 Courses offered by ITC partners. Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)

**P/N: ITC-CER-5209**

© 2015, FLIR Systems, Inc.

#ITC-CER-5209; r. 23306; en-US

- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°

**P/N: ITC-CER-5209**

© 2015, FLIR Systems, Inc.

#ITC-CER-5209; r. 23306; en-US

- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-EXP-2019

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2019  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course gives a general introduction to IR thermography and an overview on its specific use for the inspection of buildings. It aims at giving you clues on what you can do with your camera.

During the first day, you learn the basics of thermography and how to use your camera the best way. The second day you will start with a brief reminder of thermal transfers before you learn about the building envelope, important physical parameters and typical faults. Emphasis is put on case studies, selected from the field.

### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- IR Camera handling
- Basics of heat transfer
- The building envelope
- Important physical parameters
- Major anomalies
- Thermal patterns
- Application guidelines
- Data analysis and reports

### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement
- Building application labs

### Course information

Available languages	English, French, German, Swedish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in IR thermography and building applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person from the building sector</li> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> <li>• Students and pupils with thermography and building application related projects</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>



**P/N: ITC-EXP-2019**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2019; r. 23306; en-US

Course details	
Duration	2 days
Structure	Theory, camera handling, demos and practical labs alternate.
Exam	None
Course fee includes	<ul style="list-style-type: none"><li>• Tuition by qualified ITC instructor</li><li>• Training material in printed format</li><li>• Diploma of attendance</li><li>• Attendance of a group up to 10 persons</li><li>• Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li></ul>
Course organization	
ITC	The "ITC Short Course Building Thermography" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Building Thermography" is lectured by qualified ITC instructors with special experience in the field of building applications.

**Compatible with the following products**

- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display



## P/N: ITC-EXP-2011

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2011  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course gives a general introduction to IR thermography and an overview on its specific use for the inspection of buildings. It aims at giving you clues on what you can do with your camera.

During the first day, you learn the basics of thermography and how to use your camera the best way. The second day you will start with a brief reminder of thermal transfers before you learn about the building envelope, important physical parameters and typical faults. Emphasis is put on case studies, selected from the field.

### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- IR Camera handling
- Basics of heat transfer
- The building envelope
- Important physical parameters
- Major anomalies
- Thermal patterns
- Application guidelines
- Data analysis and reports

### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement
- Building application labs

### Course information

Available languages	English, French, German, Swedish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in IR thermography and building applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person from the building sector</li> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> <li>• Students and pupils with thermography and building application related projects</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>



**P/N: ITC-EXP-2011**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2011; r. 23306; en-US

Course details	
Duration	2 days
Structure	Theory, camera handling, demos and practical labs alternate.
Exam	None
Course fee includes	<ul style="list-style-type: none"><li>• Tuition by qualified ITC instructor</li><li>• Training material in printed format</li><li>• Diploma of attendance</li><li>• Might include more, such as refreshments or lunch, depending on location and organizing entity</li></ul>
Course organization	
ITC	The "ITC Short Course Building Thermography" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Building Thermography" is lectured by qualified ITC instructors with special experience in the field of building applications.

**Compatible with the following products**

- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-2061

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2061  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

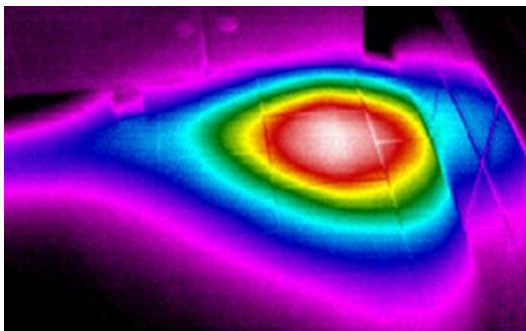
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course gives a general introduction to IR thermography and an overview on its specific use for inspections of heating and HVAC systems, and related installations. It aims at giving you clues on what you can do with your camera.

During the first day, you learn the basics of thermography, and how to use your camera the best way. The second day you will get introduced to various heating systems before you learn about typical faults and how thermography helps you to locate and analyze these. Emphasis is put on case studies, selected from the field.

### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- IR Camera handling
- Heating systems
- Pipe tracing and localization of water circuits
- Water leaks
- Moisture and humidity
- Water radiators
- Tanks, manifolds and plenums
- HVAC systems
- Industrial heat exchangers
- Photovoltaic panel inspection
- Data analysis and reports

### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement
- Application labs

### Course information

Available languages	English, French, German, Italian, Spanish, Swedish
Target group	<ul style="list-style-type: none"> <li>• Beginners and anybody interested in IR thermography, plumbing and HVAC applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Plumbers or persons working with plumbing and or/HVAC systems</li> <li>• Facility managers</li> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>

### Course details

Duration	2 days
Structure	Theory, camera handling, demos and practical labs alternate.



**P/N: ITC-EXP-2061**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2061; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"><li>• Tuition by qualified ITC instructor</li><li>• Training material in printed format</li><li>• Refreshments</li><li>• Diploma of attendance</li><li>• Might include more, such as lunch, depending on location</li></ul>
Course organization	
ITC	The "ITC Short Course HVAC and plumbing" is offered in EMEA by ITC and partners. Specific customer requests shall be forwarded to the closest ITC or ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course HVAC and plumbing" is lectured by qualified ITC instructors with special experience in the field of electrical installations.

**Compatible with the following products**

- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-2069

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2069  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

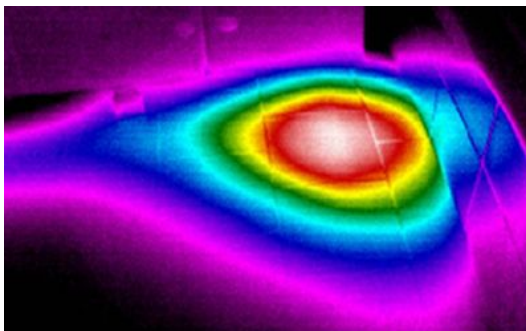
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course gives a general introduction to IR thermography and an overview on its specific use for inspections of heating and HVAC systems, and related installations. It aims at giving you clues on what you can do with your camera.

During the first day, you learn the basics of thermography, and how to use your camera the best way. The second day you will get introduced to various heating systems before you learn about typical faults and how thermography helps you to locate and analyze these. Emphasis is put on case studies, selected from the field.

### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- IR Camera handling
- Heating systems
- Pipe tracing and localization of water circuits
- Water leaks
- Moisture and humidity
- Water radiators
- Tanks, manifolds and plenums
- HVAC systems
- Industrial heat exchangers
- Photovoltaic panel inspection
- Data analysis and reports

### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement
- Application labs

### Course information

Available languages	English, French, German, Italian, Spanish, Swedish
Target group	<ul style="list-style-type: none"> <li>• Beginners and anybody interested in IR thermography, plumbing and HVAC applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Plumbers or persons working with plumbing and or/HVAC systems</li> <li>• Facility managers</li> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>

### Course details

Duration	2 days
Structure	Theory, camera handling, demos and practical labs alternate.
Exam	None



**P/N: ITC-EXP-2069**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2069; r. 23306; en-US

Course details	
Course fee includes	<ul style="list-style-type: none"><li>• Tuition by qualified ITC instructor</li><li>• Training material in printed format</li><li>• Diploma of attendance</li><li>• Attendance of a group up to 10 persons</li><li>• Might include more, such as refreshments or lunch, depending on location.</li></ul>
Note	Course fee does not include cost for instructor's travelling or lodging.

Course organization	
ITC	The "ITC Short Course HVAC and plumbing" is offered in EMEA by ITC and partners. Specific customer requests shall be forwarded to the closest ITC or ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course HVAC and plumbing" is lectured by qualified ITC instructors with special experience in the field of electrical installations.

**Compatible with the following products**

- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-1019

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1019  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This is a full one day course for beginners and everybody interested in IR thermography and its applications. The course covers the basics of IR theory and includes demos, camera hand-on and practical exercises using relevant key labs.

#### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- Introduction to electrical and building inspections
- IR Camera handling
- Data analysis and reports

#### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement

### Course information

Available languages	English, French, German, Swedish, Danish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in IR thermography and its applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> <li>• A person who starts to use IR cameras at work</li> <li>• Students and pupils with thermography related projects</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>

### Course details

Duration	1 day
Structure	Theory, camera handling and demos in the morning. Practical labs in the afternoon.

**P/N: ITC-EXP-1019**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1019; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	The "ITC Short Course Introduction to Thermography" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Introduction to Thermography" is lectured by qualified ITC instructors with long time experience in the various fields of thermography.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)



**P/N: ITC-EXP-1019**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1019; r. 23306; en-US

- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC



---

**P/N: ITC-EXP-1019**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1019; r. 23306; en-US

- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

### P/N: ITC-EXP-1011

#### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

#### Document identity

Publ. No.: ITC-EXP-1011  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

#### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

#### Website

<http://www.flir.com>

#### Customer support

<http://support.flir.com>

#### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



#### General description

This is a full one day course for beginners and everybody interested in IR thermography and its applications. The course covers the basics of IR theory and includes demos, camera hand-on and practical exercises using relevant key labs.

#### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- Introduction to electrical and building inspections
- IR Camera handling
- Data analysis and reports

#### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement

#### Course information

Available languages	English, French, German, Swedish, Danish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in IR thermography and its applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> <li>• A person who starts to use IR cameras at work</li> <li>• Students and pupils with thermography related projects</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>

#### Course details

Duration	1 day
Structure	Theory, camera handling and demos in the morning. Practical labs in the afternoon.

**P/N: ITC-EXP-1011**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1011; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by qualified ITC instructor</li> <li>• Training material in printed format</li> <li>• Diploma of attendance</li> <li>• Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>
Course organization	
ITC	The "ITC Short Course Introduction to Thermography" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Introduction to Thermography" is lectured by qualified ITC instructors with long time experience in the various fields of thermography.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)

**P/N: ITC-EXP-1011**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1011; r. 23306; en-US

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL

**P/N: ITC-EXP-1011**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1011; r. 23306; en-US

- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-SOW-0001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-SOW-0001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

These courses are for users of FLIR software like FLIR Reporter Professional or FLIR ResearchIR. Please observe that content and labs depend on the software used.

#### Content

- System requirements
- Configuration
- Analyzing functions
- Templates
- Reporting functions
- Data exchange

#### Labs

- System set up
- Data import
- Data analysis
- Creating templates
- Creating reports
- Exporting data
- Triggering

### Course information

Available languages	English, French, German, other languages upon request
Target group	<ul style="list-style-type: none"> <li>• Persons interested in, or users, of the specific software.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Consultants interested in reporting</li> <li>• Building inspectors with reporting needs</li> <li>• R&amp;D staff interested in advanced data analysis</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Laptop with installed software full version or 30 day demo (download on <a href="http://www.flir.com">www.flir.com</a>)</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic knowledge about thermography and related parameters.</li> </ul>

### Course details

Duration	Depends on software.
Structure	Short system introduction, then demos and practical exercises.

**P/N: ITC-SOW-0001**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0001; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>
Course organization	
ITC	Software courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Software courses are lectured by ITC qualified instructors experienced in usage of the software being subject of the class.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)



**P/N: ITC-SOW-0001**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0001; r. 23306; en-US

- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°

**P/N: ITC-SOW-0001**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0001; r. 23306; en-US

- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-SOW-0009

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-SOW-0009  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
These courses are for users of FLIR software like FLIR Reporter Professional or FLIR ResearchIR. Please observe that content and labs depend on the software used.	
Content	
<ul style="list-style-type: none"> <li>• System requirements</li> <li>• Configuration</li> <li>• Analyzing functions</li> <li>• Templates</li> <li>• Reporting functions</li> <li>• Data exchange</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>• System set up</li> <li>• Data import</li> <li>• Data analysis</li> <li>• Creating templates</li> <li>• Creating reports</li> <li>• Exporting data</li> <li>• Triggering</li> </ul>	
Course information	
Available languages	English, French, German, other languages upon request
Target group	<ul style="list-style-type: none"> <li>• Persons interested in, or users, of the specific software.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Consultants interested in reporting</li> <li>• Building inspectors with reporting needs</li> <li>• R&amp;D staff interested in advanced data analysis</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Laptop with installed software full version or 30 day demo (download on <a href="http://www.flir.com">www.flir.com</a>)</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic knowledge about thermography and related parameters.</li> </ul>
Course details	
Duration	Depends on software.
Structure	Short system introduction, then demos and practical exercises.

**P/N: ITC-SOW-0009**

© 2015, FLIR Systems, Inc.  
#ITC-SOW-0009; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	Software courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Software courses are lectured by ITC qualified instructors experienced in usage of the software being subject of the class.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm

**P/N: ITC-SOW-0009**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0009; r. 23306; en-US

- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°

**P/N: ITC-SOW-0009**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0009; r. 23306; en-US

- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-1001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	1 day
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-1001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1001; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm



**P/N: ITC-EXP-1001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1001; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-1001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1001; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-1009

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1009  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	1 day
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-1009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1009; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-1009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1009; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-1009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1009; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-2001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	2 days
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-2001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2001; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm



**P/N: ITC-EXP-2001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2001; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-2001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2001; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-2009

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2009  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	2 days
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-2009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2009; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-2009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2009; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-2009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2009; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-3001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-3001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	3 days
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-3001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3001; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm



**P/N: ITC-EXP-3001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3001; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-3001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3001; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-3009

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-3009  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	3 days
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-3009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3009; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-3009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3009; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-3009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3009; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-SOW-1001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-SOW-1001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

ITC Training FLIR Software - attendance 1 pers. (1 day)

### Course details

Duration	1 day
----------	-------

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)



---

**P/N: ITC-SOW-1001**

© 2015, FLIR Systems, Inc.

#ITC-SOW-1001; r. 23306; en-US

- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5



## P/N: ITC-SOW-2001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-SOW-2001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

ITC Training FLIR Software - attendance 1 pers. (2 days)

### Course details

Duration	2 days
----------	--------

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)



---

**P/N: ITC-SOW-2001**

© 2015, FLIR Systems, Inc.

#ITC-SOW-2001; r. 23306; en-US

- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TFT-0100

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TFT-0100  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

ITC travel time for instructor

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TFT-0100**

© 2015, FLIR Systems, Inc.  
#ITC-TFT-0100; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TFT-0100**

© 2015, FLIR Systems, Inc.  
#ITC-TFT-0100; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-FEE-0130

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-FEE-0130  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
EN - Repeat Certification EN473 IT Category 1	
Course information	
Available languages	DACH only
Course details	
Duration	1 day

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)

---

**P/N: ITC-FEE-0130**

© 2015, FLIR Systems, Inc.

#ITC-FEE-0130; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5



## P/N: ITC-TOL-1003

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1003  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (Center and South Africa)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)



**P/N: ITC-TOL-1003**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1003; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TOL-1003**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1003; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TOL-1001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (Europe, Balcans, Turkey, Cyprus)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1001**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1001; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TOL-1001**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1001; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TOL-1005

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1005  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (other)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1005**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1005; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TOL-1005**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1005; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5



## P/N: ITC-TOL-1002

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1002  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (Russia/GUS, Middle East, North Africa)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1002**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1002; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TOL-1002**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1002; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TOL-1004

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1004  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (various)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1004**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1004; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TOL-1004**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1004; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

# **Accessories for FLIR SC6xx series (handheld; discontinued camera series)**

---

## P/N: 19250-100

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 19250-100  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This device is a viewport which consist of a crystal "glass" window, mounted in an aluminum frame. The glass is specially formulated to allow transmission of infrared light to allow use of infrared thermal sensing equipment without opening the enclosure. This device is intended for installation in doors or walls of electrical enclosures without compromising the integrity of the enclosure.	
Power system	
Voltage	Any range
Environmental data	
Environment	Indoor/outdoor type 4/12
Operating temperature range	Maximum: 260°C (500°F)
Storage temperature range	Optics, maximum: 1357°C (2474°F)
Physical data	
Size (L x W x H)	25.5 x 73 x 86 mm (1.0 x 2.87 x 3.36 in.)
Viewing aperture diameter	45 mm (1.77 in.)
Material	Optics: CaF2 (Calcium Fluoride Crystal) Body: Anodized aluminum Hardware: steel
Comments to physical data	Required hole diameter, nominal: 60.3 mm (2.375 in.) Greenlee Punch: 76BB Maximum pullout strength: 658 kg (1450 lb.)
Lens	
Waveband	Broadband IR: short-, mid-, and longwave
Visible light spectrum	Yes
Certifications	
Certification	UL, IP67, NEMA Type 4/12, CSA
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>IR window</li> <li>Case</li> <li>Mounting instruction</li> <li>Additional safety screw</li> </ul>
Packaging, weight	0.24 kg (0.53 lb.)
Packaging, size	120 x 115 x 40 mm (4.7 x 4.5 x 1.6 in.)
EAN-13	4743254000728
UPC-12	845188002817
Country of origin	Estonia





IR Window 2 in

---

**P/N: 19250-100**

© 2015, FLIR Systems, Inc.  
#19250-100; r. 23306; en-US

**Supplies & accessories:**

## P/N: 19251-100

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 19251-100  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This device is a viewport which consist of a crystal "glass" window, mounted in an aluminum frame. The glass is specially formulated to allow transmission of infrared light to allow use of infrared thermal sensing equipment without opening the enclosure. This device is intended for installation in doors or walls of electrical enclosures without compromising the integrity of the enclosure.	
Power system	
Voltage	Any range
Environmental data	
Environment	Indoor/outdoor type 4/12
Operating temperature range	Maximum: 260°C (500°F)
Storage temperature range	Optics, maximum: 1357°C (2474°F)
Physical data	
Size (L × W × H)	26.9 × 99 × 107 mm (1.05 × 3.89 × 4.22 in.)
Viewing aperture diameter	69 mm (2.71 in.)
Material	Optics: CaF <sub>2</sub> (Calcium Fluoride Crystal) Body: Anodized aluminum Hardware: steel
Comments to physical data	Required hole diameter, nominal: 88.9 mm (3.5 in.) Greenlee Punch: 739BB Maximum pullout strength: 1656 kg (3650 lb.)
Lens	
Waveband	Broadband IR: short-, mid-, and longwave
Visible light spectrum	Yes
Certifications	
Certification	UL, IP67, NEMA Type 4/12, CSA
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>IR window</li> <li>Case</li> <li>Mounting instruction</li> <li>Additional safety screw</li> </ul>
Packaging, weight	0.39 kg (0.86 lb.)
Packaging, size	130 × 140 × 40 mm (5.12 × 5.51 × 1.58 in.)
EAN-13	4743254000735
UPC-12	845188002824
Country of origin	Estonia



IR Window 3 in.

---

**P/N: 19251-100**

© 2015, FLIR Systems, Inc.  
#19251-100; r. 23306; en-US

**Supplies & accessories:**

## P/N: 19252-100

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 19252-100  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This device is a viewport which consist of a crystal "glass" window, mounted in an aluminum frame. The glass is specially formulated to allow transmission of infrared light to allow use of infrared thermal sensing equipment without opening the enclosure. This device is intended for installation in doors or walls of electrical enclosures without compromising the integrity of the enclosure.	
Power system	
Voltage	Any range
Environmental data	
Environment	Indoor/outdoor type 4/12
Operating temperature range	Maximum: 260°C (500°F)
Storage temperature range	Optics, maximum: 1357°C (2474°F)
Physical data	
Size (L x W x H)	29.3 x 127 x 137 mm (1.15 x 5.01 x 5.37 in.)
Viewing aperture diameter	89 mm (3.50 in.)
Material	Optics: CaF2 (Calcium Fluoride Crystal) Body: Anodized aluminum Hardware: steel
Comments to physical data	Required hole diameter, nominal: 114.3 mm (4.5 in.) Greenlee Punch: 742BB Maximum pullout strength: 1678 kg (3700 lb.)
Lens	
Waveband	Broadband IR: short-, mid-, and longwave
Visible light spectrum	Yes
Certifications	
Certification	UL, IP67, NEMA Type 4/12, CSA
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>IR window</li> <li>Case</li> <li>Mounting instruction</li> <li>Additional safety screw</li> </ul>
Packaging, weight	0.46 kg (1.01 lb.)
Packaging, size	165 x 175 x 40 mm (6.50 x 6.89 x 1.58 in.)
EAN-13	4743254000742
UPC-12	845188002831
Country of origin	Estonia



IR Window 4 in.

---

**P/N: 19252-100**

© 2015, FLIR Systems, Inc.  
#19252-100; r. 23306; en-US

**Supplies & accessories:**

## P/N: 19250-200

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 19250-200  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Part name	IRW-2S
Material number	19250-200
Part description	Stainless steel IR window, 2" diameter
This device is a viewport that consist of a crystal "glass" window mounted in an aluminum frame. The glass is specially formulated to allow transmission of infrared (IR) light to allow use of IR thermal sensing equipment without opening the enclosure. This device is intended for installation in doors or walls of electrical enclosures without compromising the integrity of the enclosure.	
<b>Power system</b>	
Voltage	Any range
<b>Lens</b>	
Waveband	Broadband IR: short-, mid-, and longwave
Visible light spectrum	Yes
<b>Certifications</b>	
Certifications	UL, IP67, NEMA Type 4/12, CSA
<b>Physical data</b>	
Weight	0.5 kg (1 lb.)
Dimensions (H x W x L)	26.9 mm x 99 mm x 107 mm (1.05" x 3.89" x 4.22")
Material	Optics: CaF <sub>2</sub> (calcium fluoride crystal). Body: stainless steel AISI 316. Hardware: steel
Color	Metallic silver
<b>Shipping information</b>	
Packaging type	Color box
Packaging contents	<ul style="list-style-type: none"> <li>IR window</li> <li>Case</li> <li>Mounting instructions</li> <li>Additional safety screw</li> </ul>
Unit weight	0.54 kg (1.2 lb)
Each dimensions (H x W x L)	38.1 mm x 107.95 mm x 127 mm (1.5" x 4.25" x 5")
EAN-13	4743254001510
UPC-12	845188007584
Country of origin	Estonia
Tariff Code	9027.90.5450



---

**P/N: 19250-200**

© 2015, FLIR Systems, Inc.  
#19250-200; r. 23306; en-US

Technical support	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>

**Supplies and accessories**

## P/N: 19251-200

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 19251-200  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Part name	IRW-3S
Material number	19251-200
Part description	Stainless steel IR window, 3" diameter
This device is a viewport that consist of a crystal "glass" window mounted in an aluminum frame. The glass is specially formulated to allow transmission of infrared (IR) light to allow use of IR thermal sensing equipment without opening the enclosure. This device is intended for installation in doors or walls of electrical enclosures without compromising the integrity of the enclosure.	
<b>Power system</b>	
Voltage	Any range
<b>Environmental</b>	
Environment	Indoor/outdoor type 4/12
Operating temperature range	Maximum: 260°C (500°F)
Storage temperature range	Optics, maximum: 1357°C (2474°F)
<b>Certifications</b>	
Certifications	UL, IP67, NEMA Type 4/12, CSA
<b>Physical data</b>	
Weight:	0.7 kg (1.55 lb.)
Dimensions (H x W x L)	26.9 mm x 99 mm x 107 mm (1.05" x 3.89" x 4.22")
Material	Optics: CaF <sub>2</sub> (calcium fluoride crystal). Body: stainless steel AISI 316. Hardware: steel
Color	Metallic silver
<b>Lens</b>	
Waveband	Broadband IR: short-, mid-, and longwave
Visible light spectrum	Yes
<b>Shipping information</b>	
Packaging type	Color box
Packaging contents	<ul style="list-style-type: none"> <li>IR window</li> <li>Case</li> <li>Mounting instruction</li> <li>Additional safety screw</li> </ul>
Unit weight	0.77 kg ( 1.7 lb.)





## SS IR window 3"

### P/N: 19251-200

© 2015, FLIR Systems, Inc.  
#19251-200; r. 23306; en-US

Shipping information	
Unit dimensions (H × W × L)	38.1 mm × 127 mm × 139.7 mm (1.5" × 5" × 5.5")
EAN-13	4743254001527
UPC-12	845188007591
Country of origin	Estonia
Tariff code	9027.90.5450
Technical support	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>

### Supplies and accessories

## P/N: 19252-200

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 19252-200  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Part name	IRW-4S
Material number	19252-200
Part description	Stainless steel IR window, 4" diameter
This device is a viewport that consist of a crystal "glass" window mounted in an aluminum frame. The glass is specially formulated to allow transmission of infrared (IR) light to allow use of IR thermal sensing equipment without opening the enclosure. This device is intended for installation in doors or walls of electrical enclosures without compromising the integrity of the enclosure.	
<b>Power system</b>	
Voltage	Any range
<b>Environmental</b>	
Environment	Indoor/outdoor type 4/12
Operating temperature range	Maximum: 260°C (500°F)
Storage temperature range	Optics, maximum: 1357°C (2474°F)
<b>Certifications</b>	
Certifications	UL, IP67, NEMA Type 4/12, CSA
<b>Physical data</b>	
Weight:	1.18 kg (2.6 lb.)
Dimensions (H x W x L)	26.9 mm x 99 mm x 107 mm (1.05" x 3.89" x 4.22")
Material	Optics: CaF <sub>2</sub> (calcium fluoride crystal). Body: stainless steel AISI 316. Hardware: steel
Color	Metallic silver
<b>Lens</b>	
Waveband	Broadband IR: short-, mid-, and longwave
Visible light spectrum	Yes
<b>Shipping information</b>	
Packaging type	Color box
Packaging contents	<ul style="list-style-type: none"> <li>IR window</li> <li>Case</li> <li>Mounting instruction</li> <li>Additional safety screw</li> </ul>
Unit weight	1.32 kg ( 2.9 lb.)
Unit dimensions (H x W x L)	38.1 mm x 165.1 mm x 177.8 mm ( 1.5" x 6.5" x 7")
EAN-13	4743254001534
UPC-12	845188007607



## SS IR window 4"

### P/N: 19252-200

© 2015, FLIR Systems, Inc.  
#19252-200; r. 23306; en-US

Shipping information	
Country of origin	Estonia
Tariff code	9027.90.5450
Technical support	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
E-mail	<a href="mailto:TMSupport@flir.com">TMSupport@flir.com</a>
Phone	855-499-3662
Repairs	<a href="mailto:repair@flir.com">repair@flir.com</a>

### Supplies and accessories

## P/N: 1196683

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1196683  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This close-up optic attaches to the standard 24° lens and provides resolution of very small targets.	
Imaging and optical data	
Field of view (FOV)	32 × 24 mm (1.26 × 0.94 in.)
Magnifying factor	0.5×
Minimum focus distance	60.3 mm (2.36 in.)
Focal length	76.3 mm (3.0 in.)
Spatial resolution (IFOV)	50 μm
F-number	1.1
Physical data	
Weight	131 g
Size (L × D)	28.6 mm (1.12 in.) × 81.0 (3.19 in)
Shipping information	
Packaging, type	Cardboard box
Packaging, weight	0.415 kg (0.91 lb.)
Packaging, size	172 × 131 × 133 mm (6.8 × 5.2 × 5.2 in.)
EAN-13	7332558005750
UPC-12	845188005962
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: T197188

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197188  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The 12° lens is a popular lens accessory and provides 2× magnification compared to the standard lens. Ideal for small or distant targets such as overhead power lines.

### Imaging and optical data

Field of view (FOV)	12° × 9°
Minimum focus distance	1.2 m (3.9 ft.)
Focal length	76 mm (3.0 in.)
Spatial resolution (IFOV)	0.33 mrad
F-number	1.1

### Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"><li>• Lens</li><li>• Lens case</li></ul>
Packaging, weight	1.10 kg (2.4 lb.)
Packaging, size	174 × 133 × 133 mm (6.9 × 5.2 × 5.2 in.)
EAN-13	7332558003725
UPC-12	845188003944
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: T197190

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197190  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The 7° lens is a popular lens accessory and provides 3.5× magnification compared to the standard lens. Ideal for small or distant targets such as overhead power lines.

### Imaging and optical data

Field of view (FOV)	7° × 5.3°
Minimum focus distance	3.0 m (9.8 ft.)
Focal length	131 mm (5.2 in.)
Spatial resolution (IFOV)	0.19 mrad
F-number	1.1

### Physical data

Weight	1.50 kg (3.30 lb.), Support 0.45 kg (0.99 lb.)
Size (L × D)	168.2 mm (6.62 in.) × 146.0 mm (5.75 in.)

### Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"><li>• Lens</li><li>• Lens case</li><li>• Mounting support</li></ul>
Packaging, weight	2.685 kg (5.9 lb.)
Packaging, size	355 × 256 × 260 mm (14.0 × 10.1 × 10.2 in.)
EAN-13	7332558003732
UPC-12	845188003951
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: T197189

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197189  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This wide angle lens has a field of view almost double that of the standard 24° lens. Perfect for wide or tall targets or when working in crowded spaces.	
Imaging and optical data	
Field of view (FOV)	45° × 34°
Minimum focus distance	0.2 m (0.7 ft.)
Focal length	19 mm (0.75 in.)
Spatial resolution (IFOV)	1.3 mrad
F-number	1.1
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"><li>• Lens</li><li>• Lens case</li></ul>
Packaging, weight	0.818 kg (1.80 lb.)
Packaging, size	174 × 133 × 133 mm (6.9 × 5.2 × 5.2 in.)
EAN-13	7332558003749
UPC-12	845188003968
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: T197187

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197187  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
The standard 24° lens is suitable for the majority of applications.	
Imaging and optical data	
Field of view (FOV)	24° × 18°
Minimum focus distance	0.3 m (1.0 ft.)
Focal length	38 mm (1.5 in.)
Spatial resolution (IFOV)	0.65 mrad
F-number	1.1
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"><li>• Lens</li><li>• Lens case</li></ul>
Packaging, weight	0.61 kg (1.34 lb.)
Packaging, size	174 × 133 × 133 mm (6.9 × 5.2 × 5.2 in.)
EAN-13	7332558003756
UPC-12	845188003975
Country of origin	Sweden

### Compatible with the following products

- N/A



## P/N: T197341

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197341  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

For R&D usage or development purposes. As an example looking at PCB's or small electronic components.

### Imaging and optical data

Field of view (FOV)	16 × 12 mm (0.63 × 0.47 in.)
Magnifying factor	1x
Working distance	18 mm (0.71 in.)
Depth of field	±0.13 mm
Spatial resolution (IFOV)	25 µm
F-number	1.1
Focus	Fixed

### Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"><li>• Lens</li><li>• Lens case</li></ul>
Packaging, weight	0.872 kg (1.9 lb.)
Packaging, size	172 × 131 × 133 mm (6.8 × 5.2 × 5.2 in.)
EAN-13	7332558005941
UPC-12	845188006136
Country of origin	Sweden

### Compatible with the following products

- N/A

### P/N: T197343

#### Copyright

© 2015, FLIR Systems, Inc.

All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

#### Document identity

Publ. No.: T197343

Commit: 23380

Language: en-US

Modified: 2015-02-24 14:12

Formatted: 2015-05-12

#### Corporate Headquarters

FLIR Systems, Inc.

27700 SW Parkway Ave.

Wilsonville, OR 97070

USA

Telephone: +1-503-498-3547

#### Website

<http://www.flir.com>

#### Customer support

<http://support.flir.com>

#### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Protective window for the 24° lens. The window is made of monocrystalline fluoride.	
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"><li>• Lens</li><li>• Lens case</li></ul>
Packaging, weight	0.525 kg (1.16 lb.)
Packaging, size	174 × 133 × 133 mm (6.9 × 5.2 × 5.2 in.)
EAN-13	7332558003763
UPC-12	845188003982
Country of origin	Sweden

#### Compatible with the following products

- N/A

## P/N: 1196745

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1196745  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

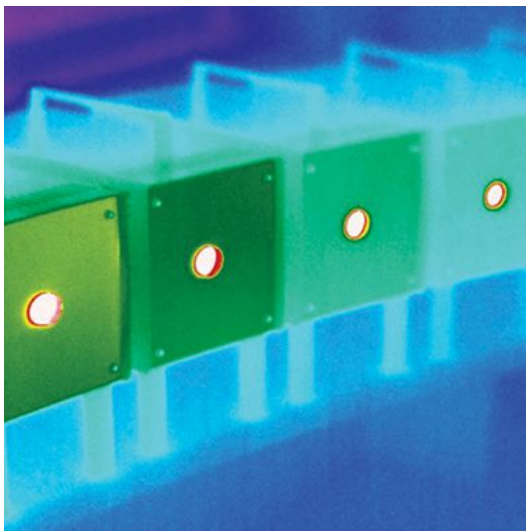
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

For high temperature applications the camera can be calibrated for high temperature ranges.

### Measurement

Optional object temperature range

Up to +2000°C (+3632°F)

### Compatible with the following products

- N/A

## P/N: 1196744

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1196744  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

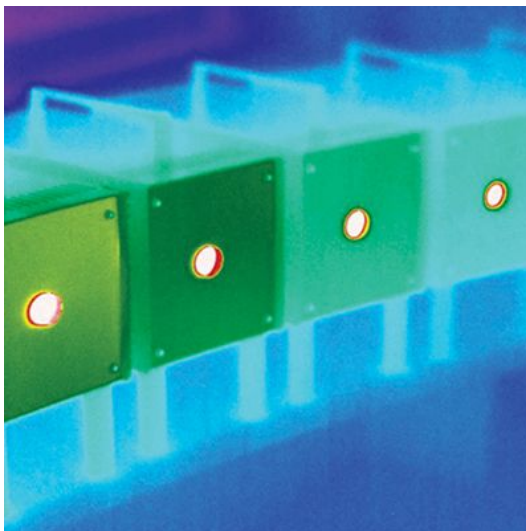
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

For high temperature applications the camera can be calibrated for high temperature ranges.

### Measurement

Optional object temperature range

Up to +1500°C (+2732°F)

### Compatible with the following products

- N/A

## P/N: T197692

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197692  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Stand-alone 2-bay battery charger, including power supply with multi plugs.	
Note: This product replaces T197563 and 1196210EU/UK/US	
Power system	
AC operation	100–240 VAC, 50/60 Hz, 12 VDC out
Power	3000 mA at 12 VDC
Physical data	
Battery charger size (L × W × H)	158 × 122 × 25 mm (6.2 × 4.8 × 1.0 in.)
Cable length	1.98 m (6.5 ft.)
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Stand-alone 2-bay battery charger</li> <li>Power supply including cable</li> <li>EU plug</li> <li>UK plug</li> <li>US plug</li> <li>AU plug</li> </ul>
Packaging, weight	0.60 kg (1.3 lb.)
Packaging, size	243 × 165 × 82 mm (9.6 × 6.5 × 3.2 in.)
EAN-13	7332558003787
UPC-12	845188004002
Country of origin	Sweden

### Compatible with the following products

- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens



Battery charger, incl. power supply with multi plugs

---

**P/N: T197692**

© 2015, FLIR Systems, Inc.  
#T197692; r. 23306; en-US

- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

## P/N: T910814

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T910814  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
FLIR P/B/SC6xx and FLIR GF3xx series:	
Power supply, including multiple plugs, to charge the battery when it is inside or outside of the camera.	
FLIR T6xx and FLIR Exx series:	
Power supply, including multiple plugs, to charge the battery when it is inside the camera or in the battery charger.	
Power system	
AC operation	100–240 VAC, 50/60 Hz, 12 VDC out
Power	3000 mA at 12 VDC
Physical data	
Cable length	1.98 m (6.5 ft.)
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Power supply including cable</li> <li>EU plug</li> <li>UK plug</li> <li>US plug</li> <li>AU plug</li> </ul>
Packaging, weight	0.324 kg (9.7 lb.)
Packaging, size	152 × 78 × 73 mm (6.0 × 3.1 × 2.9 in.)
EAN-13	7332558003794 4743254001763 (Estonia plant)
UPC-12	845188002145
Country of origin	Sweden

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)

**P/N: T910814**

© 2015, FLIR Systems, Inc.  
#T910814; r. 23306; en-US

- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)





Power supply, incl. multi plugs

---

**P/N: T910814**

© 2015, FLIR Systems, Inc.  
#T910814; r. 23306; en-US

- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: T198511

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198511  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
High capacity battery for the IR camera.	
Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	7.2 V
Battery capacity	4.4 Ah at +20°C (+68°F)
Battery note	Approximate lithium content: 3.0 g
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 95% capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
Environmental data	
Battery storage temperature range	-40°C to +70°C (-40°F to +158°F)
Physical data	
Battery weight	0.24 kg (0.52 lb.)
Size (L x W x H)	141 x 47 x 28 mm (5.5 x 1.8 x 1.1 in.)
Shipping information	
Packaging, type	Cardboard box
Packaging, weight	0.324 kg (0.7 lb.)
Packaging, size	183 x 136 x 63 mm (7.2 x 5.4 x 2.5 in.)
EAN-13	7332558004364
UPC-12	845188004347
Country of origin	Sweden

### Compatible with the following products

- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens



---

**P/N: T198511**

© 2015, FLIR Systems, Inc.  
#T198511; r. 23306; en-US

- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

## P/N: T911230ACC

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T911230ACC  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.

General description	
SD Card for data storage (e.g. images)	
Data communication interfaces	
Memory card, size	At least 4 GB
Physical data	
Weight	2 g (0.07 oz.)
Size (L x W x H)	32.0 x 24.0 x 2.1 mm (1.26 x 0.94 x 0.08 in.)
Shipping information	
Packaging, type	Cardboard box
List of contents	• SD Card
Packaging, weight	65 g (2.3 oz.)
Packaging, size	170 x 64 x 75 mm (6.69 x 2.52 x 2.95 in.)
EAN-13	7332558006221 4743254001503 (Estonia plant)
UPC-12	845188006570
Country of origin	Sweden

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)

**P/N: T911230ACC**

© 2015, FLIR Systems, Inc.  
#T911230ACC; r. 23306; en-US

- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

**P/N: 1910423**

**Copyright**

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

**Document identity**

Publ. No.: 1910423  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

**Corporate Headquarters**

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

**Website**

<http://www.flir.com>

**Customer support**

<http://support.flir.com>

**Disclaimer**

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This cable is used to connect the infrared camera with a computer, using the USB protocol.	
Physical data	
Weight	60 g (2.1 oz.)
Cable length	1.8 m (5.9 ft.)
Connector	Standard USB-A to USB Mini-B
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558003428
UPC-12	845188002176
Country of origin	Sweden

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)

**P/N: 1910423**

© 2015, FLIR Systems, Inc.  
#1910423; r. 23306; en-US

- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40



---

**P/N: 1910423**

© 2015, FLIR Systems, Inc.  
#1910423; r. 23306; en-US

- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72201-0106; FLIR K45
- 72201-0206; FLIR K55



## P/N: T198509

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198509  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This cable is used to power the infrared camera from the cigarette lighter socket in a car.	
Note: This is the same product as p/n 1196497.	
Physical data	
Cable length	1.2 m (3.9 ft).
Shipping information	
Packaging, type	Cardboard box
Packaging, weight	0.125 kg (0.28 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558004340 4743254001435 (Estonia plant)
UPC-12	845188004361
Country of origin	Sweden

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)

**P/N: T198509**

© 2015, FLIR Systems, Inc.  
#T198509; r. 23306; en-US

- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72201-0106; FLIR K45
- 72201-0206; FLIR K55

## P/N: 1910484ACC

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1910484ACC  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This cable is used to transfer video signals from the infrared camera to an external monitor, or to a computer featuring an internal video card.

### Physical data

Weight	60 g (2.1 oz.)
Cable length	2.0 m (6.6 ft.)
Connector	RCA to RCA

### Shipping information

Packaging, type	Cardboard box
Packaging, weight	163 g (5.7 oz.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558006252
UPC-12	845188006600
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: 1910483ACC

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1910483ACC  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This cable is used to connect the infrared camera with a computer, using the FireWire protocol.	
Physical data	
Weight	128 g (4.5 oz.)
Cable length	2.0 m (6.6 ft.)
Connector	FireWire 4-pin to 6-pin
Shipping information	
Packaging, type	Cardboard box
Packaging, weight	156 g (5.5 oz.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558006238
UPC-12	845188006587
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: 1910482ACC

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1910482ACC  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This cable is used to connect the infrared camera with a computer, using the FireWire protocol.	
Physical data	
Weight	157 g (5.5 oz.)
Cable length	2.0 m (6.6 ft.)
Connector	FireWire 6-pin to 6-pin
Shipping information	
Packaging, type	Cardboard box
Packaging, weight	243 g (8.6 oz.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558006245
UPC-12	845188006594
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: T197262

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197262  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Hard transport case for FLIR B/P/SC6XX	
Physical data	
Weight	3.5 kg (7.7 lb.)
Size (L x W x H)	495 x 387 x 194 mm (19.5 x 15.2 x 7.6 in.)
Color	Black
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009666
UPC-12	845188010249
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: T198508

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198508  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Standard headset with 3.5 mm plug	
Data communication interfaces	
Audio	Headset including microphone
Audio, connector type	4-pole 3.5 mm jack
Shipping information	
Packaging, type	Cardboard box
List of contents	• Headset
Packaging, weight	0.115 kg (0.25 lb.)
Packaging, size	183 × 136 × 63 mm (7.2 × 5.4 × 2.5 in.)
EAN-13	7332558004357
UPC-12	845188004354
Country of origin	Sweden

### Compatible with the following products

- N/A

**P/N: T951387**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: T951387  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Wi-Fi USB adapter for wireless connection between the infrared camera and external equipment.	
NOTE: Only for use in markets accepting CE and FCC regulations for wireless equipment.	
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Wi-Fi USB micro adapter</li> </ul>
Packaging, weight	0.062 kg (0.14 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005859
UPC-12	845188006068
Country of origin	Sweden

## Compatible with the following products

- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens



## P/N: T197771ACC

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T197771ACC  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Headset with Bluetooth for wireless connection with the infrared camera.	
Data communication interfaces	
Bluetooth	Connection to the infrared camera
Audio	Headset including microphone
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Headset</li> <li>Ear clip</li> <li>Charger</li> <li>Multi plugs</li> <li>USB cable Std A to Mini-B</li> </ul>
Packaging, weight	278 g (9.8 oz.)
Packaging, size	183 × 136 × 63 mm (7.2 × 5.35 × 2.48 in.)
EAN-13	7332558006337
UPC-12	845188006686
Country of origin	Sweden

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)

**P/N: T197771ACC**

© 2015, FLIR Systems, Inc.  
#T197771ACC; r. 23306; en-US

- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: T951235ACC

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T951235ACC  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Bluetooth USB micro adapter for wireless connection between the infrared camera and external Bluetooth equipment.	
Data communication interfaces	
Bluetooth	USB-A
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"><li>Bluetooth USB micro adapter</li></ul>
Packaging, weight	65 g (2.3 oz.)
Packaging, size	170 × 64 × 75 mm (6.69 × 2.52 × 2.95 in.)
EAN-13	7332558006283
UPC-12	845188006631
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: T198586

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198586  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description
FLIR Reporter Professional is a powerful software for creating compelling and professional, fully customized, easy-to-interpret maintenance reports.
Professional Report Wizard guides you step-by-step in combining all IR inspection data - infrared and visual images, temperature measurements, and text notes – into a professional, easy-to-interpret maintenance report.
Key features:
<ul style="list-style-type: none"> <li>• Flexible report page design and layout for customized reports</li> <li>• Use quick insert function to easily create custom report pages</li> <li>• Fully integrated with standard Microsoft Word</li> <li>• Generates reports in standard MS Office format and PDF-format</li> <li>• Powerful temperature analysis</li> <li>• Triple Fusion Picture-in-Picture (movable, sizable, scalable)</li> <li>• Rapid report manager supporting automatic report generation by drag-and-drop</li> <li>• Support for MSX (Multi-Spectral Dynamic Imaging) images</li> <li>• Support for sketch images in both IR and visual with on/off toggling</li> <li>• Support for same FOV ("Field of View Match")</li> <li>• Grid settings</li> <li>• Trending functionality</li> <li>• Automatic link to Google™ Maps for images with GPS coordinates</li> <li>• Automatic summary table for the report</li> <li>• Fine tune images and make full temperature analysis directly in Microsoft Word</li> <li>• Spell check</li> <li>• Create your own formulas including measurement values from images</li> <li>• Play radiometric sequences directly in the report</li> <li>• Search functionality to quickly finding images for your report</li> <li>• Panorama tool for combining several images to a larger image</li> <li>• Support for GF series IR images</li> <li>• Auto Update function</li> <li>• Office 2003 (32-bit), Office 2007 (32-bit) and Office 2010 (32-bit)</li> <li>• Windows 7 (32 and 64-bit), Windows Vista (32 and 64-bit)</li> <li>• Support for METERLiNK™ data</li> <li>• *.docx compatibility</li> </ul>
Download
Download your copy of FLIR Reporter Professional here:
<a href="http://support.flir.com/reporter">http://support.flir.com/reporter</a>

**P/N: T198586**

© 2015, FLIR Systems, Inc.  
#T198586; r. 23306; en-US

Release notes	
Version	9.2
New features	<ul style="list-style-type: none"> <li>— News in 9.2: —</li> <li>Option to hide Zoom Viewer</li> <li>Option to extract Visual image from MSI/Fusion image.</li> <li>Support for the new FLIR Ex and Exx series cameras.</li> <li>Support for multispectral images.</li> <li>Support for auto-oriented images.</li> <li>Various bug fixes.</li> </ul>
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>FLIR Reporter Professional scratchcard</li> </ul>
Packaging, weight	0.135 kg (0.3 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005286 4743254001893 (Estonia plant)
UPC-12	845188005498
Country of origin	Sweden
System requirements	
Operating system	<ul style="list-style-type: none"> <li>Windows XP, 32-bit</li> <li>Windows Vista, 32-bit</li> <li>Windows Vista, 64-bit</li> <li>Windows 7, 32-bit</li> <li>Windows 7, 64-bit</li> </ul>
Software requirements	<ul style="list-style-type: none"> <li>Office 2007 (32-bit)</li> <li>Office 2010 (32-bit)</li> </ul>

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)

**P/N: T198586**

© 2015, FLIR Systems, Inc.  
#T198586; r. 23306; en-US

- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

**P/N: T198586**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: T198586  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

FLIR Reporter Professional is a powerful software for creating compelling and professional, fully customized, easy-to-interpret maintenance reports.

Professional Report Wizard guides you step-by-step in combining all IR inspection data - infrared and visual images, temperature measurements, and text notes – into a professional, easy-to-interpret maintenance report.

## Key features:

- Flexible report page design and layout for customized reports
- Use quick insert function to easily create custom report pages
- Fully integrated with standard Microsoft Word
- Generates reports in standard MS Office format and PDF-format
- Powerful temperature analysis
- Triple Fusion Picture-in-Picture (movable, sizable, scalable)
- Rapid report manager supporting automatic report generation by drag-and-drop
- Support for MSX (Multi-Spectral Dynamic Imaging) images
- Support for sketch images in both IR and visual with on/off toggling
- Support for same FOV ("Field of View Match")
- Grid settings
- Trending functionality
- Automatic link to Google™ Maps for images with GPS coordinates
- Automatic summary table for the report
- Fine tune images and make full temperature analysis directly in Microsoft Word
- Spell check
- Create your own formulas including measurement values from images
- Play radiometric sequences directly in the report
- Search functionality to quickly finding images for your report
- Panorama tool for combining several images to a larger image
- Support for GF series IR images
- Auto Update function
- Office 2003 (32-bit), Office 2007 (32-bit) and Office 2010 (32-bit)
- Windows 7 (32 and 64-bit), Windows Vista (32 and 64-bit)
- Support for METERLiNK™ data
- \*.docx compatibility

## Download

Download your copy of FLIR Reporter Professional here:

<http://support.flir.com/reporter>

**P/N: T198586**

© 2015, FLIR Systems, Inc.  
#T198586; r. 23306; en-US

Release notes	
Version	9.2
New features	<ul style="list-style-type: none"> <li>— News in 9.2: —</li> <li>Option to hide Zoom Viewer</li> <li>Option to extract Visual image from MSI/Fusion image.</li> <li>Support for the new FLIR Ex and Exx series cameras.</li> <li>Support for multispectral images.</li> <li>Support for auto-oriented images.</li> <li>Various bug fixes.</li> </ul>
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>FLIR Reporter Professional scratchcard</li> </ul>
Packaging, weight	0.135 kg (0.3 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005286 4743254001893 (Estonia plant)
UPC-12	845188005498
Country of origin	Sweden
System requirements	
Operating system	<ul style="list-style-type: none"> <li>Windows XP, 32-bit</li> <li>Windows Vista, 32-bit</li> <li>Windows Vista, 64-bit</li> <li>Windows 7, 32-bit</li> <li>Windows 7, 64-bit</li> </ul>
Software requirements	<ul style="list-style-type: none"> <li>Office 2007 (32-bit)</li> <li>Office 2010 (32-bit)</li> </ul>

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)



**P/N: T198586**

© 2015, FLIR Systems, Inc.  
#T198586; r. 23306; en-US

- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: T198584

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198584  
Commit: 25122  
Language: en-US  
Modified: 2015-04-29 09:51  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

FLIR Tools is a software suite specifically designed to provide an easy way to update your camera and create inspection reports.

#### Key features:

- Report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR).
- Manual IR/Visual Image Grouping
- Import images from your camera to your computer.
- Apply filters when searching for images.
- Search all text in images and text annotations.
- Store the five latest search criteria's.
- Lay out, move, and resize measurement tools on any infrared image.
- Create PDF imagesheets of any images of your choice.
- Add headers, footers, and logos to imagesheets.
- Create PDF reports for images of your choice.
- Add headers, footers, and logos to reports.
- Report editor (report page preview and snap to grid).
- Sort function (by date, groups sorted by path, and groups sorted by date).
- Browse and purchase infrared cameras, software, and accessories in the webshop.
- Software localized to 21 languages.
- Support for MSX (Multi-Spectral Dynamic Imaging ) Images
- Support for Sketch Images on both IR and Visual with toggling ON/OFF feature.
- Support for Same FOV ( Field of View Match )
- Display of Compass Information in Edit and in Report.
- Display of GPS Information in Edit and in Report.
- Microsoft Windows 7 (32- and 64-bit) and Windows 8 (32- and 64-bit)
- Camera update (applies to FLIR Ex, Kxx, Exx and T6xx series only).

### Download

This software is a freeware. To download, click the following link:

<http://support.flir.com/tools>

### Release notes

Version	5.2
New features in version 5.2	<ul style="list-style-type: none"> <li>• Support for auto-adjusting a region.</li> <li>• Support for zoom.</li> <li>• Various bug fixes.</li> </ul>
New features in version 5.1	<ul style="list-style-type: none"> <li>• Improved import performance.</li> <li>• Added support for video recording settings for FLIR Kxx series.</li> <li>• Added support for importing video files from FLIR Kxx series.</li> <li>• Added support for FLIR C2 camera.</li> <li>• Various bug fixes.</li> </ul>

**P/N: T198584**

© 2015, FLIR Systems, Inc.  
#T198584; r. 25122; en-US

Release notes	
New features in version 5.0	<ul style="list-style-type: none"> <li>Local object parameters for measurement tools.</li> <li>Save a report in-process with the ability to edit at a later time.</li> <li>Pull-down menus for text annotations.</li> <li>Variable playback speed for recordings.</li> <li>Show or hide min./max./avg. temperature, and hot/cold markers, for areas and lines.</li> <li>Smoother display for low-resolution images.</li> <li>UltraMax image enhancement.</li> <li>Dropping support for Windows XP.</li> <li>Various bug fixes.</li> </ul>
New features in version 4.1	<ul style="list-style-type: none"> <li>Previous/next in Edit mode.</li> <li>Clone in the Library.</li> <li>Extract visual photo from a multispectral image.</li> <li>Import *.mp4, *.seq, and *.csq files from the camera.</li> <li>Playback/edit *.seq and *.csq files.</li> <li>Scale enhancement for the FLIR GF3xx series.</li> <li>Auto resize of thumbnails during importing for the FLIR T6xx series.</li> <li>Grouping/ungrouping now added.</li> <li>Various bug fixes.</li> </ul>
New features in version 4.0	<ul style="list-style-type: none"> <li>Support for the new FLIR Ex and Exx series cameras.</li> <li>Interactive quick start guide when connecting a FLIR camera.</li> <li>Improved library view.</li> <li>Support for multispectral images.</li> <li>Support for auto-oriented images.</li> <li>Various bug fixes.</li> </ul>
New features in version 3.1	<ul style="list-style-type: none"> <li>Support for FLIR K series cameras.</li> <li>Interactive quick start guide when connecting a FLIR K series camera.</li> <li>Live image streaming from FLIR K series cameras.</li> <li>PC-side configuration of FLIR K series cameras.</li> <li>New report templates for DC images only added.</li> <li>Various bug fixes.</li> </ul>
New features in version 3.0	<ul style="list-style-type: none"> <li>Add folder to library.</li> <li>Support for isotherms and color alarms</li> <li>Image description for both IR and DC.</li> <li>Export functionality (*.avi, *.csv).</li> <li>Microsoft Windows 8 (32- and 64-bit)</li> <li>New web installer</li> <li>Various bug fixes.</li> </ul>
New features in version 2.2	<ul style="list-style-type: none"> <li>Camera tab: <ul style="list-style-type: none"> <li>Logging feature in Camera Tab</li> <li>Recording and playback of SEQ files.</li> </ul> </li> <li>Various bug fixes.</li> </ul>
New features in version 2.1	<ul style="list-style-type: none"> <li>New Text Comment Template Tab: <ul style="list-style-type: none"> <li>Create, Edit and Transfer templates to and from any FLIR Camera.</li> <li>Import and Export of Templates.</li> </ul> </li> <li>Support for MSX (Multi-Spectral Dynamic Imaging ) Images</li> <li>Support for Sketch Images on both IR and Visual with toggling ON/OFF feature.</li> <li>Support for Same FOV ( Field of View Match )</li> <li>Display of Compass Information in Edit and in Report.</li> <li>Display of GPS Information in Edit and in Report. <ul style="list-style-type: none"> <li>Direct Link to Google Maps for GPS Tagged images from Report.</li> </ul> </li> <li>Support for 3x5 and 6x5 A-series cameras</li> </ul>

**P/N: T198584**

© 2015, FLIR Systems, Inc.  
#T198584; r. 25122; en-US

Release notes	
New features in version 2.0	<ul style="list-style-type: none"> <li>Camera tab: <ul style="list-style-type: none"> <li>Camera connection with FLIR UVC cameras.</li> <li>Measurement data analysis.</li> <li>Plotting.</li> <li>Snapshot saving with text annotation and plot.</li> </ul> </li> <li>Performance improvement for large reports: can now create reports and imagesheets of up to 200 pages.</li> <li>Various bug fixes.</li> </ul>
New features in version 1.3	<ul style="list-style-type: none"> <li>Import from ix series cameras.</li> <li>Add and remove a form from a group.</li> <li>Text comments are now saved in the infrared image.</li> <li>The indexing engine can create groups from IR, DC, and text annotations when indexing the paths in the watch folder.</li> <li>Arrow tool in the report toolbar.</li> <li>Reorder pages.</li> <li>Text annotations can now be edited in the report.</li> <li>New report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR).</li> <li>New sample images.</li> </ul>
New features in version 1.2 SP1	<ul style="list-style-type: none"> <li>Various bug fixes.</li> </ul>
New features in version 1.2	<ul style="list-style-type: none"> <li>Search function: <ul style="list-style-type: none"> <li>Store the five latest search criterias.</li> <li>Search in all texts in images and text annotations.</li> </ul> </li> <li>Sort function: <ul style="list-style-type: none"> <li>By date.</li> <li>Groups sorted by by path.</li> <li>Groups sorted by date.</li> </ul> </li> <li>Report editor: <ul style="list-style-type: none"> <li>Report page preview.</li> <li>Snap to grid.</li> <li>Various bug fixes.</li> </ul> </li> </ul>
New features in version 1.1 SP1	<ul style="list-style-type: none"> <li>Extension to the camera update functionality.</li> <li>Various bug fixes</li> </ul>
New features in version 1.1	<ul style="list-style-type: none"> <li>Software localized to 21 languages.</li> <li>Camera update. (Exx, T6xx)</li> <li>Option to rotate an infrared image in the infrared editor.</li> </ul>

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>Digital download, or</li> <li>CD-ROM</li> </ul>
Packaging, weight	0.106 kg (0.23 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005279
UPC-12	845188005481
Country of origin	Sweden

System requirements	
Operating system	<ul style="list-style-type: none"> <li>Windows XP, 32-bit</li> <li>Windows Vista, 32-bit</li> <li>Windows 7, 32-bit</li> <li>Windows 7, 64-bit</li> <li>Windows 8, 32-bit</li> <li>Windows 8, 64-bit</li> </ul>

**P/N: T198584**

© 2015, FLIR Systems, Inc.  
#T198584; r. 25122; en-US

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm

**P/N: T198584**

© 2015, FLIR Systems, Inc.  
#T198584; r. 25122; en-US

- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

**P/N: T198584**

© 2015, FLIR Systems, Inc.  
#T198584; r. 25122; en-US

- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72001-0101; FLIR C2

**P/N: T198583**

## Copyright

© 2015, FLIR Systems, Inc.

All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: T198583

Commit: 25121

Language: en-US

Modified: 2015-04-29 09:50

Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.

27700 SW Parkway Ave.

Wilsonville, OR 97070

USA

Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

Compared to FLIR Tools, FLIR Tools+ has the following features:

- Radiometric Panorama incl. MSX
- Radiometric IR Video Recording
- Advanced Reporting

FLIR Tools/Tools+ is a software suite specifically designed to provide an easy way to update your camera and create inspection reports.

FLIR Tools+ main features:

- Manual IR/Visual Image Grouping
- Radiometric Panorama incl. MSX
- Radiometric IR Video Recording
- Advanced Reporting - Microsoft Office 2007 (32bit), and 2010 (32bit) support
- Report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR).
- Import images from your camera to your computer.
- Apply filters when searching for images.
- Search all text in images and text annotations.
- Store the five latest search criteria's.
- Lay out, move, and resize measurement tools on any infrared image.
- Create PDF imagesheets of any images of your choice.
- Add headers, footers, and logos to imagesheets.
- Create PDF reports for images of your choice.
- Add headers, footers, and logos to reports.
- Report editor (report page preview and snap to grid).
- Sort function (by date, groups sorted by path, and groups sorted by date).
- Browse and purchase infrared cameras, software, and accessories in the webshop.
- Software localized to 21 languages.
- Support for MSX (Multi-Spectral Dynamic Imaging ) Images
- Support for Sketch Images on both IR and Visual with toggling ON/OFF feature.
- Support for Same FOV ( Field of View Match )
- Display of Compass Information in Edit and in Report.
- Display of GPS Information in Edit and in Report.
- Microsoft Windows 7 (32- and 64-bit) and Windows 8 (32- and 64-bit)
- Camera update (applies to FLIR Ex, Kxx, Exx and T6xx series only).

## Download

Download a 30-day evaluation version here:

<http://support.flir.com/toolsplus>

## Release notes

Version	5.2
New features in version 5.2	<ul style="list-style-type: none"> <li>• Support for auto-adjusting a region.</li> <li>• Support for zoom.</li> <li>• Express Microsoft Word reporting (*.docx).</li> <li>• Various bug fixes.</li> </ul>



**P/N: T198583**

© 2015, FLIR Systems, Inc.  
#T198583; r. 25121; en-US

Release notes	
New features in version 5.1	<ul style="list-style-type: none"> <li>Improved import performance.</li> <li>Added support for video recording settings for FLIR Kxx series.</li> <li>Added support for importing video files from FLIR Kxx series.</li> <li>Added support for FLIR C2 camera.</li> <li>Various bug fixes.</li> </ul>
New features in version 5.0	<ul style="list-style-type: none"> <li>Local object parameters for measurement tools.</li> <li>Save a report in-process with the ability to edit at a later time.</li> <li>Pull-down menus for text annotations.</li> <li>Variable playback speed for recordings.</li> <li>Show or hide min./max./avg. temperature, and hot/cold markers, for areas and lines.</li> <li>Smoother display for low-resolution images.</li> <li>UltraMax image enhancement.</li> <li>Dropping support for Windows XP.</li> <li>Various bug fixes.</li> </ul>
New features in version 4.1	<ul style="list-style-type: none"> <li>Previous/next in Edit mode.</li> <li>Clone in the Library.</li> <li>Extract visual photo from a multispectral image.</li> <li>Import *.mp4, *.seq, and *.csq files from the camera.</li> <li>Playback/edit *.seq and *.csq files.</li> <li>Scale enhancement for the FLIR GF3xx series.</li> <li>Auto resize of thumbnails during importing for the FLIR T6xx series.</li> <li>Grouping/ungrouping now added.</li> <li>Various bug fixes.</li> </ul>
New features in version 4.0	<ul style="list-style-type: none"> <li>Support for the new FLIR Ex and Exx series cameras.</li> <li>Interactive quick start guide when connecting a FLIR camera.</li> <li>Improved library view.</li> <li>Support for multispectral images.</li> <li>Support for auto-oriented images.</li> <li>Various bug fixes.</li> </ul>
New features in version 3.1	<ul style="list-style-type: none"> <li>Support for FLIR K series cameras.</li> <li>Interactive quick start guide when connecting a FLIR K series camera.</li> <li>Live image streaming from FLIR K series cameras.</li> <li>PC-side configuration of FLIR K series cameras.</li> <li>New report templates for DC images only added.</li> <li>Various bug fixes.</li> </ul>
New features in version 3.0	<ul style="list-style-type: none"> <li>Add folder to library.</li> <li>Support for isotherms and color alarms</li> <li>Image description for both IR and DC.</li> <li>Export functionality (*.avi, *.csv).</li> <li>Microsoft Windows 8 (32- and 64-bit)</li> <li>New web installer</li> <li>Radiometric panorama with MSX images.</li> <li>Advanced reports.</li> <li>Manual grouping/ungrouping of images.</li> <li>Various bug fixes.</li> </ul>
New features in version 2.2	<ul style="list-style-type: none"> <li>Camera tab: <ul style="list-style-type: none"> <li>Logging feature in Camera Tab</li> <li>Recording and playback of SEQ files.</li> </ul> </li> <li>Various bug fixes.</li> </ul>
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>FLIR Tools+ scratchcard</li> </ul>
Packaging, weight	0.059 kg (0.13 lb.)

**P/N: T198583**

© 2015, FLIR Systems, Inc.  
#T198583; r. 25121; en-US

Shipping information	
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	73325585378 4743254001442 (Estonia plant)
UPC-12	845188005580
Country of origin	Sweden
System requirements	
Operating system	<ul style="list-style-type: none"> <li>• Windows XP, 32-bit</li> <li>• Windows Vista, 32-bit</li> <li>• Windows 7, 32-bit</li> <li>• Windows 7, 64-bit</li> <li>• Windows 8, 32-bit</li> <li>• Windows 8, 64-bit</li> </ul>
Software requirements	<ul style="list-style-type: none"> <li>• Office 2007, 32-bit</li> <li>• Office 2010, 32-bit</li> <li>• Office 2013, 32-bit</li> </ul>

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)

**P/N: T198583**

© 2015, FLIR Systems, Inc.  
#T198583; r. 25121; en-US

- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens

**P/N: T198583**

© 2015, FLIR Systems, Inc.  
#T198583; r. 25121; en-US

- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 63901-0101; FLIR E4
- 63905-0501; FLIR E5
- 63902-0202; FLIR E6
- 63903-0303; FLIR E8

## P/N: DSW-10000

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: DSW-10000  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

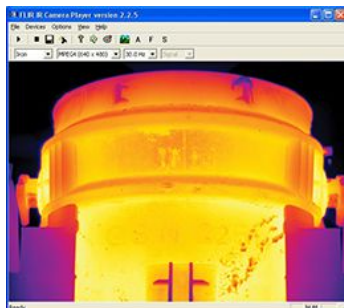
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

FLIR IR Camera Player is a PC-based remote control and viewer that you can use with cameras from FLIR Systems.

You can perform one or more of the following with FLIR IR Camera Player:

- Record a video stream from the camera.
- Save a frame from the video stream as a snapshot image (\*.bmp).
- Autofocus, focus far, and focus near.
- Autoadjust the camera image.
- Freeze the camera image.
- Save a camera image in the camera.
- Change Color palette.
- Add an image description and a text comment to an image.

You connect a camera in one of the following ways:

- Ethernet
- FireWire
- USB

### Download

This software is a freeware. To download, click the following link:

<http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=89>

### Release notes

Version	2.3.3
New features	<p>Main improvements in version 2.3.3:</p> <ul style="list-style-type: none"> <li>• Added latest device drivers (1.9.1.0).</li> <li>• Various bugfixes</li> </ul> <p>Main improvements in version 2.2.7:</p> <ul style="list-style-type: none"> <li>• Added support for FLIR Ax5 series.</li> </ul>

### System requirements

Operating system	<ul style="list-style-type: none"> <li>• Windows XP, 32-bit</li> <li>• Windows Vista, 32-bit/64-bit</li> <li>• Windows 7, 32-bit/64-bit</li> </ul>
------------------	--

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)

**P/N: DSW-10000**

© 2015, FLIR Systems, Inc.  
#DSW-10000; r. 24597; en-US

- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc

**P/N: DSW-10000**

© 2015, FLIR Systems, Inc.  
#DSW-10000; r. 24597; en-US

- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)



---

**P/N: DSW-10000**

© 2015, FLIR Systems, Inc.  
#DSW-10000; r. 24597; en-US

- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)



## P/N: APP-10002

### Copyright

© 2015, FLIR Systems, Inc.

All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: APP-10002

Commit: 24597

Language: en-US

Modified: 2015-04-09 13:38

Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.

27700 SW Parkway Ave.

Wilsonville, OR 97070

USA

Telephone: +1-503-498-3547

### Website

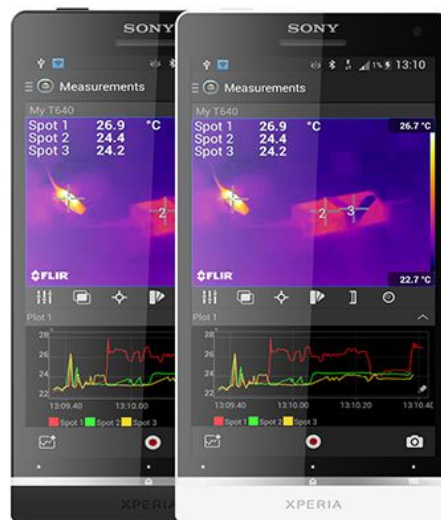
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

FLIR Tools Mobile is an intuitive Android app for analyzing, managing, and distributing infrared images.

#### Key features:

- Remote control
- MSX
- Images with sketch on DC and IR
- Images with field of view follow
- Editable text comments
- Emissivity table
- Import images from your Wi-Fi-enabled camera.
- Connect and stream infrared images from the camera.
- Connect and stream measurement data from FLIR Test & Measurement meters
- Lay out and move measurement tools on the image.
- Read out temperature measurements.
- Create and configure temporal plots based on results of measurement tools on the infrared image.
- Log measurement data and export it as a \*.csv file.
- Save a measurement scenario as a data snapshot.
- Zoom in on images.
- On the Android device, remotely take snapshots when a camera is connected.
- On the camera, take snapshots that will automatically be saved on the Android device.
- Delete images on the Android device.
- Display an image's GPS coordinates on Google Maps.
- Create and e-mail reports.
- Save images in the Android device photo library.
- Send images to FTP sites and other file-sharing services (Dropbox, Box.net, etc.).
- Display image information, e.g., object parameters, text comments, and file details.
- Play back voice comments.
- Change the level and span.
- Change general settings in the app.
- Change the palette.

### Download

The application can be downloaded from Android Market or Amazon Marketplace, see the link below.

<https://market.android.com/details?id=com.flir.viewer>

**P/N: APP-10002**

© 2015, FLIR Systems, Inc.  
#APP-10002; r. 24597; en-US

Release notes	
Version	3.4.0
New features	<p>Main improvements in version 3.4.0:</p> <ul style="list-style-type: none"> <li>• Support for *.csq files.</li> <li>• Various bug fixes.</li> </ul> <p>Main improvements in version 3.2.0:</p> <ul style="list-style-type: none"> <li>• Receive data logs from FLIR DM93.</li> <li>• Save or export data logs in new *.csv format.</li> <li>• Various bug fixes.</li> </ul> <p>Main improvements in version 3.1.0:</p> <ul style="list-style-type: none"> <li>• Added variable level of MSX alpha</li> <li>• Added Fusion Blending mode for images with possibility to adjust level</li> <li>• Stability fixes</li> <li>• Improved memory management</li> <li>• Modified internal handling of measurement results and displaying them.</li> </ul>
System requirements	
Operating system	<ul style="list-style-type: none"> <li>• Android 2.3 and later</li> </ul>

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)

**P/N: APP-10002**

© 2015, FLIR Systems, Inc.  
#APP-10002; r. 24597; en-US

- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: APP-10003

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: APP-10003  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

FLIR Tools Mobile lets professional thermographers use an iPad, iPhone, or iPod touch to see and capture live, streaming infrared video and stills from select FLIR cameras.

With FLIR Tools Mobile the camera can be stationed in one area and operated wirelessly from another – highly useful for IR inspections of energized equipment or performing IR surveys in hard-to-reach locations and harsh working environments. Streaming video and remote access also gives decision makers and others on your team a valuable opportunity to observe and collaborate in the thermal imaging process.

Using FLIR Tools Mobile, you can do one or more of the following:

- Import images from your infrared camera
- Lay out and move measurement tools on the image
- Read out temperature measurements
- Zoom in on images
- On the iPhone/iPad, remotely take snapshots when a camera is connected
- On the camera, take snapshots that will automatically be saved in the iPhone/iPad
- Delete any images on the iPhone/iPad
- Display an image's GPS coordinates on Google Maps
- Create and e-mail imagesheets
- Create and e-mail reports
- Print imagesheets and reports to any AirPrint-enabled printer
- Save images to iPhone/iPad photo library
- Send images to FTP sites and other file sharing services (Dropbox, Box.net, etc.)
- Display image information, such as object parameters, text comments, file information, etc.
- Play-back voice comments
- Change level and span
- Change general settings in the app
- Change palette

**P/N: APP-10003**

© 2015, FLIR Systems, Inc.  
#APP-10003; r. 24597; en-US

General description	
FLIR Tools Mobile lets you take control of the following features on selected cameras:	
<ul style="list-style-type: none"> <li>Remote control of your FLIR camera.</li> <li>Support for MSX (Multi-Spectral Dynamic Imaging) images.</li> <li>Support for sketch images in both IR and visual with on/off toggling.</li> <li>Support for same FOV ("Field of View Match").</li> <li>Editable text comments.</li> <li>Auto and manual focus</li> <li>Level and span</li> <li>Color palettes</li> <li>Temperature measurement analytics</li> <li>Spot</li> <li>Area box</li> <li>Circle</li> <li>Line</li> <li>Parameter settings</li> <li>Emissivity</li> <li>Reflected temperature</li> <li>Relative humidity</li> <li>Atmospheric temperature</li> <li>IR and visible light image blending</li> <li>Picture-in-picture</li> <li>Thermal fusion</li> <li>Image storage</li> <li>MPEG 4 video</li> <li>Radiometric JPEG stills</li> </ul>	
Download	
The application can be downloaded from App Store, see the link below.	
<a href="http://itunes.apple.com/app/flir-tools/id511247887?mt=8">http://itunes.apple.com/app/flir-tools/id511247887?mt=8</a>	
Release notes	
Version	1.5.0
New features	<p>Main improvements in version 1.5.0:</p> <ul style="list-style-type: none"> <li>Updated for iOS7.</li> <li>Improved Library.</li> </ul> <p>Main improvements in version 1.3.2:</p> <ul style="list-style-type: none"> <li>Added remote viewer mode for T4xx and Exx series.</li> <li>Improved support for anonymous FTP server.</li> <li>Improved image import from photo gallery.</li> </ul> <p>Main improvements in version 1.3:</p> <ul style="list-style-type: none"> <li>Support for fusion images.</li> <li>Marking fusion images with the stacked icon in the library browser.</li> <li>Switching image modes while editing fusion images.</li> <li>Switch between fusion IR/DC and grouped images during preview.</li> <li>Support for landscape and portrait images.</li> <li>Image parameters can be modified only in edit mode.</li> <li>Support for FLIR Exx-series cameras.</li> </ul>
System requirements	
Operating system	<ul style="list-style-type: none"> <li>iOS 4.0 or later</li> </ul>
Hardware requirements	<ul style="list-style-type: none"> <li>iPhone</li> <li>iPad</li> <li>iPod</li> </ul>

**Compatible with the following products**

- N/A

## P/N: APP-10004

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: APP-10004  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
FLIR Tools is a software specifically designed to provide an easy way to analyze infrared images and create inspection reports.	
Using FLIR Tools, you can do one or more of the following:	
<ul style="list-style-type: none"> <li>• Import images from your camera to your computer.</li> <li>• Search for images.</li> <li>• Lay out, move, and resize measurement tools on any infrared image.</li> <li>• Create PDF reports for images of your choice.</li> <li>• Add headers, footers, and logos to reports.</li> <li>• Create new report templates.</li> </ul>	
FLIR Tools lets you take control of the following features on selected cameras:	
<ul style="list-style-type: none"> <li>• Connect an infrared camera to FLIR Tools and display its live image stream.</li> <li>• When the camera is connected, lay out measurement tools, change parameters, create plots, etc.</li> </ul>	
Download	
The application can be downloaded from Mac App Store, see the link below.	
<a href="https://itunes.apple.com/app/flir-tools/id579348845?mt=12">https://itunes.apple.com/app/flir-tools/id579348845?mt=12</a>	
Release notes	
Version	2.1
New features	<p>Main improvements in version 2.1:</p> <ul style="list-style-type: none"> <li>• Support for thermal blending.</li> <li>• Support for groups and multispectral images.</li> <li>• Improved stability.</li> </ul> <p>Main improvements in version 2.0:</p> <ul style="list-style-type: none"> <li>• Connect an infrared camera to FLIR Tools and display its live image stream.</li> <li>• When the camera is connected, lay out measurement tools, change parameters, create plots, etc.</li> <li>• Create new report templates.</li> <li>• Various bug fixes.</li> </ul>
System requirements	
Operating system	<ul style="list-style-type: none"> <li>• OS X 10.7 or later,</li> </ul>
Hardware requirements	<ul style="list-style-type: none"> <li>• MacOS</li> </ul>

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)

**P/N: APP-10004**

© 2015, FLIR Systems, Inc.  
#APP-10004; r. 24597; en-US

- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

**P/N: T198567**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: T198567  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

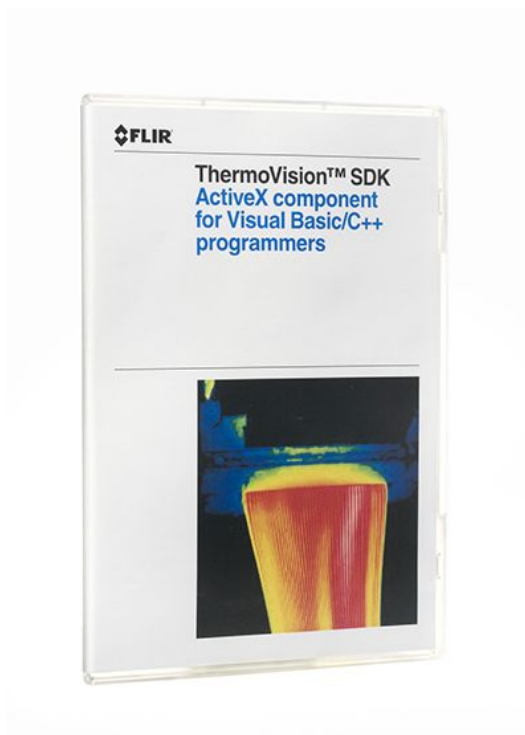
<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
ThermoVision™ System Developers Kit	
Key features:	
<ul style="list-style-type: none"> <li>• Supports communication and broadcasting via FireWire™, Ethernet, and USB interfaces.</li> <li>• Gives the user full control of the camera.</li> <li>• Allows the user to set alarm conditions and measurement functions in the camera</li> <li>• Allows the user to define I/O functionality (FLIR A series).</li> <li>• Based on ActiveX technology.</li> <li>• Supports acquisition of images through FireWire™, Ethernet, and USB interfaces.</li> <li>• Reads from and writes to file in FLIR Systems' proprietary file format and writes to files in FLIR Systems' open floating point format (*.fpf).</li> <li>• Converts 16-bit absolute pixels into temperature pixels and several intermediate types of pixels formats, for maximum user flexibility. Applies to all camera models with temperature measurement capabilities.</li> <li>• Allows 16-bit temperature linear outputs from FLIR A series cameras.</li> <li>• Includes method that allows using individual emissivity value correction on any single pixel or condensed measuring value – e.g. average, minimum etc.</li> <li>• Supports conditional recording to file through FireWire™, Ethernet, and USB interfaces.</li> </ul>	
Users with licenses for the previous version can download a free upgrade via the following link: <a href="http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=62">http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=62</a>	
Release notes	
Version	ThermoVision 2.6 SP2
New features	<ul style="list-style-type: none"> <li>• — News in SP2:</li> <li>• Support for FLIR GF3XX series</li> <li>• Support for windowing in FLIR A615 and FLIR SC6x5</li> <li>• Support for windowing in FLIR SC6x0</li> <li>• Various bug fixes</li> </ul>
Shipping information	
Packaging, type	Cardboard box
Packaging, weight	0.132 kg (0.3 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)



**P/N: T198567**

© 2015, FLIR Systems, Inc.  
#T198567; r. 24597; en-US

Shipping information	
EAN-13	7332558005293
UPC-12	845188005504
Country of origin	Sweden

**Compatible with the following products**

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens



---

**P/N: T198567**

© 2015, FLIR Systems, Inc.  
#T198567; r. 24597; en-US

- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

## P/N: T198566

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198566  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

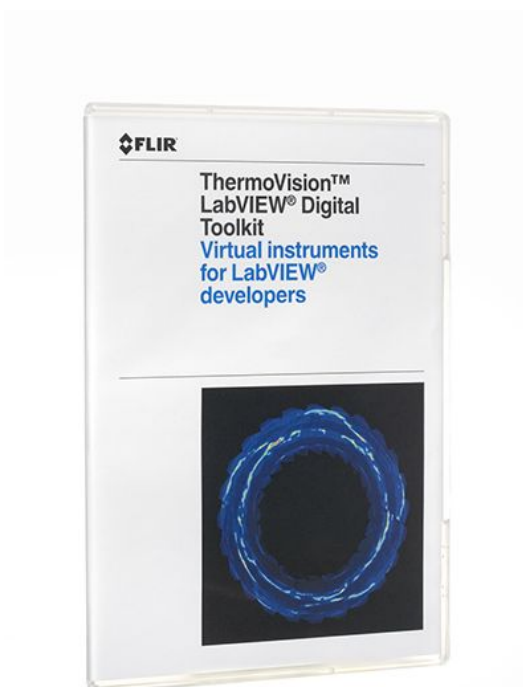
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
<p>The ThermoVision LabVIEW Toolkit is a set of VIs (virtual instruments) for cameras that support alarms, measurement functions, and I/O functionality.</p> <p>Through LabVIEW, you can use these VIs as sub-VIs to manage communications with a FLIR IR camera in digital mode.</p> <p>You can also generate true temperature images from images acquired through LabVIEW, and can use the LabVIEW IR Measurement and Display tools to analyze the temperatures of imaged objects.</p>	
Key features:	
<ul style="list-style-type: none"> <li>Set up communications between LabVIEW VI and a FLIR IR camera</li> <li>Capture and collect images via FireWire or Ethernet interfaces</li> <li>Adjust the camera configuration parameters and focus as you view a live image</li> <li>Control the camera calibration</li> <li>Send any other camera command to the camera</li> <li>Generate a true temperature image from a 16-bit image acquired using the camera's FireWire or Ethernet interfaces</li> <li>Close communications to the IR camera</li> </ul>	
<p>Users with licenses for the previous version can download a free upgrade via the following link:  <a href="http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=63">http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=63</a></p>	
Note: Only supports National Instrument 32-bit Labview	
Release notes	
Version	3.3
New features	<ul style="list-style-type: none"> <li>Windows 7 32- and 64-bit support</li> <li>Support for FLIR A615 and FLIR SC6X5 (including windowing)</li> <li>Support for windowing in FLIR SC660</li> <li>Various bug fixes</li> <li>New example VIs</li> </ul>
Shipping information	
Packaging, type	Cardboard box
Packaging, weight	0.133 kg (0.3 lb.)

**P/N: T198566**

© 2015, FLIR Systems, Inc.  
#T198566; r. 23306; en-US

Shipping information	
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005187
UPC-12	845188005399
Country of origin	Sweden

**Compatible with the following products**

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°



---

**P/N: T198566**

© 2015, FLIR Systems, Inc.  
#T198566; r. 23306; en-US

- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

## P/N: T199810

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T199810  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The Extended Warranty Package covers parts and labour for your IR camera, consumables not included.

FLIR Systems warrants its products to be free from defects caused by faulty material or poor workmanship, for a period specified above. NO PRODUCT IS WARRANTED TO BE MERCHANTABLE OR FIT FOR ANY PARTICULAR USE OR APPLICATION. The warranty is void if the buyer damages the item due to misuse, abuse, modification, processing, or integration with other items. FLIR Systems' maximum liability under this warranty is limited to the obligation to replace or, at its sole option, to credit Buyer's account up to the purchase price.

### Download

Contact info can be found at:

<http://support.flir.com>

### Compatible with the following products

- N/A

**P/N: T199829**

**Copyright**

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

**Document identity**

Publ. No.: T199829  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

**Corporate Headquarters**

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

**Website**

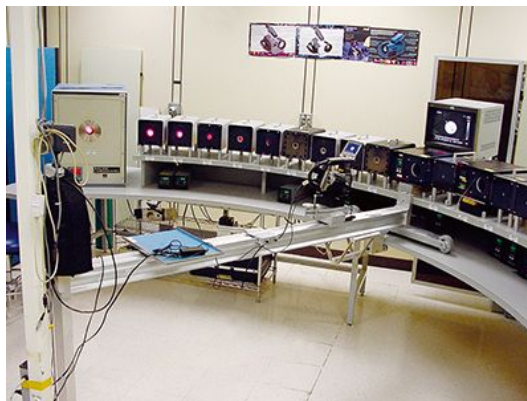
<http://www.flir.com>

**Customer support**

<http://support.flir.com>

**Disclaimer**

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



**General description**

General Maintenance package offers a complete 14 points inspection and calibration service (for one lens combination). Shipping cost not included.

**14-point inspection program:**

- Perform a complete operational check.
- Fusion calibration and laser alignment, when applicable.
- Verify all internal cable and PCB connections.
- Clean the viewfinder and check the optics.
- Upgrade the internal camera software to the latest revisions.
- Perform minor repairs.
- Verify and/or re-equalize as needed each temperature range for image uniformity.
- Verify standard lens calibration (optional: other or specially engineered lenses).
- Verify ambient temperature compensation as needed.
- Recalibration to ensure factory specifications are met.
- Calibrate temperature ranges up to +1500°C, when applicable.
- Perform a quality-approved acceptance test procedure.
- Provide a calibration label with the next due date.
- Provide a calibration certificate (optional: extended calibration certificate with measured values).

**Download**

Contact info can be found at:

<http://support.flir.com>

**Compatible with the following products**

- N/A

## P/N: ITC-FEE-0120

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-FEE-0120  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Certification DIN EN ISO 9712 TT Category 1	
Course information	
Available languages	DACH only
Course details	
Duration	1 day

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)



**P/N: ITC-FEE-0120**

© 2015, FLIR Systems, Inc.

#ITC-FEE-0120; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-CER-6101

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-6101  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
DIN EN ISO 9712 TT Category 1 Certification course, excl. Certification, 1 pers.	
Course information	
Available languages	DACH only
Course details	
Duration	5 days

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)

---

**P/N: ITC-CER-6101**

© 2015, FLIR Systems, Inc.

#ITC-CER-6101; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-CER-6109

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-6109  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
DIN EN ISO 9712 TT Category 1 Certification course, excl. Certification, group up to 10 pers.	
Course information	
Available languages	DACH only
Course details	
Duration	5 days

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)

---

**P/N: ITC-CER-6109**

© 2015, FLIR Systems, Inc.

#ITC-CER-6109; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-ADV-3021

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3021  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This interdisciplinary course bridges the gap between IR thermography, background science and application theory. Being an overview course it deals with three main application fields of thermography: electrical, industrial, and building. For every application the participant will learn about the specific theory, typical faults, and how to detect them with a thermography camera. The student will also learn about the basics of condition monitoring, and maintenance.

Examples and case studies from the real world illustrate the course content and are discussed with the participants. Participants will be trained in discovering and identifying typical faults by typical thermal patterns.

### Content

- Introduction
- Electrical Applications (current, voltage, resistance, electrical systems, Ohm's law, some important properties of materials, typical faults, surveying methodology and criteria, safety, voltage limits)
- Industrial Applications (bearings, pumps, gears, belts, misalignment and couplings, gaskets, seals, rings, glands, steam traps, furnaces)
- Building Applications (definition of the building envelope, steady state thermal transfer in a building envelope, transient thermal transfer in a building envelope, applications)

### Course information

Available languages	English
Target group	<ul style="list-style-type: none"> <li>• Professional thermographers holding a Level 1 or a Level 2 certificate and</li> <li>• with interest in increasing their knowledge of different thermographic applications, and their limitations or</li> <li>• with a special interest in condition monitoring of machines</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Knows how to operate the camera</li> <li>• Knows how to report</li> <li>• Works in the industry with e.g. maintenance and condition monitoring or is a consultant</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Valid Level 1 thermography certificate</li> <li>• IR related education and experience</li> </ul>

**P/N: ITC-ADV-3021**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3021; r. 23306; en-US

Course details	
Duration	3 days (24 hours)
Structure	The course is divided into the three parts: Electrical Applications, Industrial Applications, and Building Applications. Theory sessions and case studies including interactive discussions alternate.
Exam	A final exam (30 multiple choice questions) will be written on the 3d day in the afternoon. In connection, the correct answers will be discussed by the instructor and the participants.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Attendance of 1 person</li> <li>• Might include more, such as lunch, depending on location and organizing entity</li> </ul>
Course organization	
ITC	The Advanced General Thermography Course is offered worldwide by ITC as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary.
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Advanced General Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)

**P/N: ITC-ADV-3021**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3021; r. 23306; en-US

- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC



---

**P/N: ITC-ADV-3021**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3021; r. 23306; en-US

- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-ADV-3029

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3029  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This interdisciplinary course bridges the gap between IR thermography, background science and application theory. Being an overview course it deals with three main application fields of thermography: electrical, industrial, and building. For every application the participant will learn about the specific theory, typical faults, and how to detect them with a thermography camera. The student will also learn about the basics of condition monitoring, and maintenance.

Examples and case studies from the real world illustrate the course content and are discussed with the participants. Participants will be trained in discovering and identifying typical faults by typical thermal patterns.

### Content

- Introduction
- Electrical Applications (current, voltage, resistance, electrical systems, Ohm's law, some important properties of materials, typical faults, surveying methodology and criteria, safety, voltage limits)
- Industrial Applications (bearings, pumps, gears, belts, misalignment and couplings, gaskets, seals, rings, glands, steam traps, furnaces)
- Building Applications (definition of the building envelope, steady state thermal transfer in a building envelope, transient thermal transfer in a building envelope, applications)

### Course information

Available languages	
English	
Target group	
<ul style="list-style-type: none"> <li>• Professional thermographers holding a Level 1 or a Level 2 certificate and</li> <li>• with interest in increasing their knowledge of different thermographic applications, and their limitations or</li> <li>• with a special interest in condition monitoring of machines</li> </ul>	
Typical student	
<ul style="list-style-type: none"> <li>• Knows how to operate the camera</li> <li>• Knows how to report</li> <li>• Works in the industry with e.g. maintenance and condition monitoring or is a consultant</li> </ul>	
Pre-requisites	
<ul style="list-style-type: none"> <li>• Valid Level 1 thermography certificate</li> <li>• IR related education and experience</li> </ul>	

**P/N: ITC-ADV-3029**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3029; r. 23306; en-US

Course details	
Duration	3 days (24 hours)
Structure	The course is divided into the three parts: Electrical Applications, Industrial Applications, and Building Applications. Theory sessions and case studies including interactive discussions alternate.
Exam	A final exam (30 multiple choice questions) will be written on the 3d day in the afternoon. In connection, the correct answers will be discussed by the instructor and the participants.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Attendance of a group up to 10 persons</li> <li>• Might include more, such as lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	The Advanced General Thermography Course is offered worldwide by ITC as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary.
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Advanced General Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)

**P/N: ITC-ADV-3029**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3029; r. 23306; en-US

- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL

---

**P/N: ITC-ADV-3029**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3029; r. 23306; en-US

- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-ADV-3061

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3061  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
ITC Advanced Thermal applications course - attendance 1 pers. (3 days)	
Course information	
Available languages	DACH only
Course details	
Duration	3 days

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)

**P/N: ITC-ADV-3061**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3061; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°



---

**P/N: ITC-ADV-3061**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3061; r. 23306; en-US

- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°



## P/N: ITC-ADV-3069

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3069  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
ITC Advanced Thermal applications course - group up to 10 pers. (3 days)	
Course information	
Available languages	DACH only
Course details	
Duration	3 days

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)

**P/N: ITC-ADV-3069**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3069; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°



---

**P/N: ITC-ADV-3069**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3069; r. 23306; en-US

- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-ADV-3041

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3041  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The core part (2 days) consists of lectures on theoretical subjects, plus hands-on. Additional days can be booked (ITC-ADV-3006). After a general review of heat and heat transfer, the participants will learn about radiative heat transfer. Starting with the standard measurement situation they will learn about the importance of emissivity and reflected apparent temperature. The participants will compute and estimate emissivity and do compensation for the reflected apparent temperature. They will also learn about calibration and Hypercal. Depending on the needs of the audience and the time available, additional topics to be covered can be measurement through windows, measurable figures of merit, signal generation, the influence of integration time, ROIC, etc., triggering and synchronization, and NUC and Bad Pixel Replacement.

### Content

- Introduction
- Review on thermal transfer
- Radiative heat transfer
- What does a camera see? Definition of a standard measurement situation
- Computing the emissivity. Estimating emissivity and T<sub>Refl</sub> (with practice)
- From radiation to signal
- Measurable figure of merits (with practice)
- Triggering and synchronization (additional content, upon request, with practice)
- Measuring through a window (additional content, upon request, with practice)
- Calibration (additional content, upon request, with practice)
- Spectral filters (additional content, upon request, with practice)
- NUC and Bad Pixels replacement (additional content, upon request, with practice)
- Transient, Lock-in and Pulse, basics of NDT (additional content, upon request)

### Labs

- Practice according to content listed above

### Course information

Available languages	English, other languages upon request
Target group	<ul style="list-style-type: none"> <li>• Users of FLIR cooled thermal cameras and systems (cameras connected to a PC with e.g. the software programs Altair, AltairLI or Thesa).</li> <li>• Users of un-cooled thermal cameras with interest in advanced thermal measurement applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Laboratory and industry technical personnel</li> <li>• Researchers and scientists</li> <li>• University students</li> <li>• Persons working with NDT</li> </ul>

**P/N: ITC-ADV-3041**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3041; r. 23306; en-US

Course information	
Pre-requisites	<ul style="list-style-type: none"> <li>None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Basic knowledge about thermography and related parameters.</li> <li>Experience in measurement techniques and general software skills.</li> </ul>
Course details	
Duration	Standard: 2 days (in succession or separate) Upon request: Additional day including complementary topics (ITC-ADV-3006) Upon request: 1 day only (for experienced users with sufficient theoretical background)
Structure	Theory and hands-on
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training and/or reference material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as lunch or refreshments, depending on location and the organizing entity</li> </ul>
Note	This is normally an on-site course organized at a customer's facility. For open classes, please contact your closest ITC, ITC partner or FLIR sales representative.
Course organization	
ITC	The course "ITC Advanced Thermal Measurements (R&D)" is offered by ITC direct operations in EMEA. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The course "ITC Advanced Thermal Measurements (R&D)" is delivered by ITC qualified instructors having the relevant expertise in advanced thermal measurement, infrared applications, and the use of the camera equipment including software programs.

**Compatible with the following products**

- 42901-1001; FLIR A305sc
- 48001-1001; FLIR A325sc
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-ADV-3046

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3046  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The core part (2 days) consists of lectures on theoretical subjects, plus hands-on. Additional days can be booked (ITC-ADV-3006). After a general review of heat and heat transfer, the participants will learn about radiative heat transfer. Starting with the standard measurement situation they will learn about the importance of emissivity and reflected apparent temperature. The participants will compute and estimate emissivity and do compensation for the reflected apparent temperature. They will also learn about calibration and Hypercal. Depending on the needs of the audience and the time available, additional topics to be covered can be measurement through windows, measurable figures of merit, signal generation, the influence of integration time, ROIC, etc., triggering and synchronization, and NUC and Bad Pixel Replacement.

### Content

- Introduction
- Review on thermal transfer
- Radiative heat transfer
- What does a camera see? Definition of a standard measurement situation
- Computing the emissivity. Estimating emissivity and T<sub>Refl</sub> (with practice)
- From radiation to signal
- Measurable figure of merits (with practice)
- Triggering and synchronization (additional content, upon request, with practice)
- Measuring through a window (additional content, upon request, with practice)
- Calibration (additional content, upon request, with practice)
- Spectral filters (additional content, upon request, with practice)
- NUC and Bad Pixels replacement (additional content, upon request, with practice)
- Transient, Lock-in and Pulse, basics of NDT (additional content, upon request)

### Labs

- Practice according to content listed above

### Course information

Available languages	English, other languages upon request
Target group	<ul style="list-style-type: none"> <li>• Users of FLIR cooled thermal cameras and systems (cameras connected to a PC with e.g. the software programs Altair, AltairLI or Thesa).</li> <li>• Users of un-cooled thermal cameras with interest in advanced thermal measurement applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Laboratory and industry technical personnel</li> <li>• Researchers and scientists</li> <li>• University students</li> <li>• Persons working with NDT</li> </ul>

**P/N: ITC-ADV-3046**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3046; r. 23306; en-US

Course information	
Pre-requisites	<ul style="list-style-type: none"> <li>None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Basic knowledge about thermography and related parameters.</li> <li>Experience in measurement techniques and general software skills.</li> </ul>
Course details	
Duration	Standard: 2 days (in succession or separate) Upon request: Additional day including complementary topics (ITC-ADV-3006) Upon request: 1 day only (for experienced users with sufficient theoretical background)
Structure	Theory and hands-on
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training and/or reference material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 6 persons</li> <li>Might include more, such as lunch, refreshments, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Note	This is normally an on-site course organized at a customer's facility. The fee does not include costs for instructor's travelling or lodging. The customer is responsible for providing access to the equipment or objects that should be analyzed or measured, a suitable meeting room, and preferably also refreshments/lunch.
Course organization	
ITC	The course "ITC Advanced Thermal Measurements (R&D)" is offered by ITC direct operations in EMEA. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The course "ITC Advanced Thermal Measurements (R&D)" is delivered by ITC qualified instructors having the relevant expertise in advanced thermal measurement, infrared applications, and the use of the camera equipment including software programs.

**Compatible with the following products**

- 42901-1001; FLIR A305sc
- 48001-1001; FLIR A325sc
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°



## P/N: ITC-ADV-3006

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3006  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
An additional day can be booked when the customer wants to extend the training content, software exercises or guided field practice.	
The third day can be added to the following courses: ITC-ADV-3046	
Content	
<ul style="list-style-type: none"> <li>Customized, build on the topics of the course prior to the additional day</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized, depending on the equipment used and the application of interest</li> </ul>	
Course information	
Available languages	English, other languages upon demand
Target group	<ul style="list-style-type: none"> <li>Participants of advanced courses that are delivered on-site</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with special interests in the equipment and their application requesting in-depth training or additional guidance.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Please refer to the pre-requisites of the course prior to the additional day</li> </ul>
Course details	
Duration	1 day
Structure	Customized upon the customer's request
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>ITC qualified instructor teaching the class</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 6 persons</li> <li>Might include more, such as lunch, refreshments, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>





**P/N: ITC-ADV-3006**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3006; r. 23306; en-US

Course organization	
ITC	Additional days are offered by the ITC or ITC partner arranging the respective standard class prior to the additional day. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Additional days are normally lectured by the same ITC trainers lecturing the standard class prior to the additional day.

**Compatible with the following products**

- 42901-1001; FLIR A305sc
- 48001-1001; FLIR A325sc
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-CON-1001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CON-1001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

ITC conference fee

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-CON-1001**

© 2015, FLIR Systems, Inc.

#ITC-CON-1001; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-CON-1001**

© 2015, FLIR Systems, Inc.

#ITC-CON-1001; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-EXP-1041

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1041  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This is a special day emphasizing on specifications of equipment towards the particularities of applications (for instance triggering or high speed). It addresses mainly the needs of high-end camera users in the scientific or industrial fields.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, French, other languages upon request
Target group	<ul style="list-style-type: none"> <li>Highly specialized users with advanced and scientific applications as well as persons interested in these applications and related infrared equipment.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Researchers</li> <li>Scientists</li> <li>University students</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Basic knowledge about thermography and related parameters.</li> <li>Experience in measurement techniques and general software skills.</li> </ul>
Course details	
Duration	Typically 1 day
Structure	Theory and hands-on, depending on topics
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material</li> <li>Diploma of attendance</li> </ul>
Note	This course is typically organized at the customer's site. Course fee does not include cost for instructor's travelling or lodging. The customer is responsible for providing a suitable classroom and preferably also refreshments/lunch.

**P/N: ITC-EXP-1041**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1041; r. 23306; en-US

Course organization	
ITC	ITC customized workshops are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	ITC customized workshops are lectured by ITC qualified specialists having the relevant expertise in the workshop's subject and the related fields of application.

**Compatible with the following products**

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC

**P/N: ITC-EXP-1041**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1041; r. 23306; en-US

- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

## P/N: ITC-EXP-0511

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-0511  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
ITC Getting Started with Thermography - attendance, 1 pers.	
Course information	
Available languages	DE, FR, IT, NL, SE
Course details	
Duration	4 hours

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)





---

**P/N: ITC-EXP-0511**

© 2015, FLIR Systems, Inc.

#ITC-EXP-0511; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-EXP-0521

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-0521  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

ITC Getting Started with Thermography (evening or weekend) - attendance, 1 pers.

### Course information

Available languages	DE, FR, IT, NL, SE
---------------------	--------------------

### Course details

Duration	4 hours
----------	---------

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)

---

**P/N: ITC-EXP-0521**

© 2015, FLIR Systems, Inc.

#ITC-EXP-0521; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-EXP-1050

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1050  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Consultancy can be described as any action or arrangement that is not strictly a training course. Most likely, a thermal camera will be involved. It can be, but is not restricted to:

- Pre-sales equipment or software demonstration over the normal extend
- Equipment and software demonstration and explanation over the normal extend
- Advanced technical support
- Application support
- Comparative study involving a camera, either alone or in conjunction with other instruments
- General measurements in a difficult or unusual situation

### Content

- Customized

### Labs

- Customized

### Course information

Available languages	English, French, other languages upon request
Target group	<ul style="list-style-type: none"> <li>• Advanced users who wish to receive an in-depth guidance to complex problems related to infrared equipment, applications, and measurement questions.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Industry technical personnel</li> <li>• Researchers</li> <li>• Scientists</li> <li>• University students</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic knowledge about thermography and related parameters.</li> <li>• Experience in measurement techniques and general software skills.</li> </ul>

### Course details

Duration	Typically 1 day
Structure	Theory and hands-on, depending on topics

**P/N: ITC-EXP-1050**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1050; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Consultancy by qualified ITC specialist</li> <li>Training and/or reference material</li> </ul>
Note	Consultancy is typically carried out at the customer's site. The fee does not include costs for instructor's travelling or lodging. The customer is responsible for providing access to the equipment or objects that should be analyzed or measured, a suitable meeting room, and preferably also refreshments/lunch.
Course organization	
ITC	ITC consultancy is offered by ITC in EMEA. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	ITC consultancy is delivered by ITC qualified specialists having the relevant expertise in infrared measurement and the related fields of application.

**Compatible with the following products**

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°

**P/N: ITC-EXP-1050**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1050; r. 23306; en-US

- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

## P/N: ITC-PRO-2004

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-PRO-2004  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The core part (2 days) consists of lectures on theoretical subjects, plus hands-on. After a general review of heat and heat transfer, the participants will learn about radiative heat transfer. Starting with the standard measurement situation they will learn about the importance of emissivity and reflected apparent temperature. The participants will compute and estimate emissivity and do compensation for the reflected apparent temperature. They will also learn about calibration and Hypercal. Depending on the needs of the audience and the time available, additional topics to be covered can be measurement through windows, measurable figures of merit, signal generation, the influence of integration time, ROIC, etc., triggering and synchronization, and NUC and Bad Pixel Replacement.

### Content

- Introduction
- Review on thermal transfer
- Radiative heat transfer
- What does a camera see? Definition of a standard measurement situation
- Computing the emissivity. Estimating emissivity and T<sub>Refl</sub> (with practice)
- From radiation to signal
- Measurable figure of merits (with practice)
- Triggering and synchronization (additional content, upon request, with practice)
- Measuring through a window (additional content, upon request, with practice)
- Calibration (additional content, upon request, with practice)
- Spectral filters (additional content, upon request, with practice)
- NUC and Bad Pixels replacement (additional content, upon request, with practice)
- Transient, Lock-in and Pulse, basics of NDT (additional content, upon request)

### Labs

- Practice according to content listed above

### Course information

Available languages	English, other languages upon request
Target group	<ul style="list-style-type: none"> <li>• Users of FLIR cooled thermal cameras and systems (cameras connected to a PC with e.g. the software programs Altair, AltairLI or Thesa).</li> <li>• Users of un-cooled thermal cameras with interest in advanced thermal measurement applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Laboratory and industry technical personnel</li> <li>• Researchers and scientists</li> <li>• University students</li> <li>• Persons working with NDT</li> </ul>

**P/N: ITC-PRO-2004**

© 2015, FLIR Systems, Inc.

#ITC-PRO-2004; r. 23306; en-US

Course information	
Pre-requisites	<ul style="list-style-type: none"> <li>None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Basic knowledge about thermography and related parameters.</li> <li>Experience in measurement techniques and general software skills.</li> </ul>
Course details	
Duration	Standard: 2 days Upon request: Additional day including complementary topics Upon request: 1 day only (for experienced users with sufficient theoretical background)
Structure	Theory and hands-on
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training and/or reference material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 4 persons</li> <li>Might include more, such as lunch, refreshments, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Note	This is normally an on-site course organized at a customer's facility. The fee does not include costs for instructor's travelling or lodging. The customer is responsible for providing access to the equipment or objects that should be analyzed or measured, a suitable meeting room, and preferably also refreshments/lunch.
Course organization	
ITC	The course "ITC In-house R&D training ATS products" is offered by ITC direct operations in EMEA. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The course "ITC In-house R&D training ATS products" is delivered by ITC qualified instructors having the relevant expertise in advanced thermal measurement, infrared applications, and the use of the camera equipment including software programs.

**Compatible with the following products**

- 42901-1001; FLIR A305sc
- 48001-1001; FLIR A325sc
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°



## P/N: ITC-EXP-1021

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1021  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
An on-site training can be customized upon your needs. The participants will learn about IR thermography, inspections, measurements, applications, and reporting corresponding to the level needed for performing measurements and inspection in their working environment. The trainer will give useful advice on how to best implement IR thermography in your business.	
This partnumber is reserved for adding additional students to an on site class.	
Content	
<ul style="list-style-type: none"> <li>An on-site course can be any course, from a 1-day introduction to general thermography, over a customized application course to a complete certification course.</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Portable classroom labs</li> <li>Field training on the site in agreement with the customer</li> </ul>	
Course information	
Available languages	English, Dutch, German, French, Italian, Spanish, Swedish, other languages upon request
Target group	<ul style="list-style-type: none"> <li>Employees of a company or certain departments who would like to minimize travel costs and receive the training directly on their daily working site.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>
Course details	
Duration	Customized or according to the kind of course the in-house training is equivalent to.
Structure	Theory, camera handling, demos, practical labs and field training alternate.

**P/N: ITC-EXP-1021**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1021; r. 23306; en-US

Course details	
Exam	Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> </ul>
Course organization	
ITC	ITC In-house courses are offered worldwide by ITC and partners as listed. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	ITC In-house courses are lectured by ITC qualified instructors with experience in the relevant fields of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm

**P/N: ITC-EXP-1021**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1021; r. 23306; en-US

- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°

**P/N: ITC-EXP-1021**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1021; r. 23306; en-US

- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-1029

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1029  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
An on-site training can be customized upon your needs. The participants will learn about IR thermography, inspections, measurements, applications, and reporting corresponding to the level needed for performing measurements and inspection in their working environment. The trainer will give useful advice on how to best implement IR thermography in your business.	
Content	
<ul style="list-style-type: none"> <li>An on-site course can be any course, from a 1-day introduction to general thermography, over a customized application course to a complete certification course.</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Portable classroom labs</li> <li>Field training on the site in agreement with the customer</li> </ul>	
Course information	
Available languages	English, Dutch, German, French, Italian, Spanish, Swedish, other languages upon request
Target group	<ul style="list-style-type: none"> <li>Employees of a company or certain departments who would like to minimize travel costs and receive the training directly on their daily working site.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>
Course details	
Duration	Customized or according to the kind of course the in-house training is equivalent to.
Structure	Theory, camera handling, demos, practical labs and field training alternate.
Exam	Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.

**P/N: ITC-EXP-1029**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1029; r. 23306; en-US

Course details	
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by qualified ITC instructor</li> <li>• Training material in printed format</li> <li>• Diploma of attendance</li> <li>• Attendance of a group up to 10 persons</li> </ul>
Note	Course fee does not include cost for instructor's travelling or lodging. When organized at the customers' site, the customer is responsible for providing a suitable classroom and preferably also refreshments/lunch.
Course organization	
ITC	ITC In-house courses are offered worldwide by ITC and partners as listed. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	ITC In-house courses are lectured by ITC qualified instructors with experience in the relevant fields of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)

**P/N: ITC-EXP-1029**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1029; r. 23306; en-US

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL

**P/N: ITC-EXP-1029**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1029; r. 23306; en-US

- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display



## P/N: ITC-CER-5105

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5105  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 1 certified thermographer. The participant will learn about the basics of infrared, how to operate the camera under different conditions and for various purposes, how to do an appropriate judgement of the measurement situation in the field and how to identify potential error sources. After the class, the participant will be able to do IR inspections following written guidelines and to report the result of this inspection.

This partnumber is reserved for adding additional students to a level 1 on site class.

### Content

- Introduction to Thermography
- Camera Operation
- Basic physics of heat
- Basic physics of infrared
- Thermal pattern recognition and IR applications
- IR temperature measurement techniques
- Qualitative and quantitative thermography
- Inspection routines and reporting

### Student presentations

During the seminar, students will generate a small case study based on the lab exercises to be presented to the class.

### Labs

- Camera handling
- Level and Span
- Conduction pattern
- Forced convection
- Direct and indirect thermal measurement
- Thermal capacity
- Steady state and transient heat flow
- Evaporation and condensation
- Electrical application
- Emissivity and Reflected apparent temperature
- Spatial resolution
- Location and temperature measurement of a hot/cold spot
- Image transfer to the computer

**P/N: ITC-CER-5105**

© 2015, FLIR Systems, Inc.

#ITC-CER-5105; r. 23306; en-US

Course information	
Available languages	Chinese, Danish, Dutch, English, Finish, French, German, Greek, Hebrew, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (bra.), Romanian, Russian, Serbo-Croatian, Spanish, Swedish, Thai
Target group	<ul style="list-style-type: none"> <li>• Practical user</li> <li>• This course is designed for beginners in thermography with some experience in camera handling and limited IR knowledge, who want to take their first step to become a professional thermographer and want to qualify as a Level 1 certified thermographer.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>• having already some basic experience with IR thermography,</li> <li>• knowing the basic functions of the camera,</li> <li>• who wants to become a certified thermographer in order to gain a competitive advantage or who needs the certifications because of legal reasons or company internal regulations.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Be familiar with the basic operation of an infrared camera</li> <li>• Have the recommended experience within thermography according to relevant standards</li> </ul>

Course details	
Duration	35 – 40 hours
Structure	Theory and camera practice (hands-on) alternate every day, additional labs and software exercises at some days.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>• Attendance of 1 person</li> <li>• Might include more, such as lunch, depending on location and organizing entity</li> </ul>
Note	Only for non-EURO, non-SEK, non NOK, non- £, -non CHF countries

Course organization	
ITC	The Level 1 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)

**P/N: ITC-CER-5105**

© 2015, FLIR Systems, Inc.

#ITC-CER-5105; r. 23306; en-US

- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc

**P/N: ITC-CER-5105**

© 2015, FLIR Systems, Inc.

#ITC-CER-5105; r. 23306; en-US

- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-CER-5101

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5101  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 1 certified thermographer. The participant will learn about the basics of infrared, how to operate the camera under different conditions and for various purposes, how to do an appropriate judgement of the measurement situation in the field and how to identify potential error sources. After the class, the participant will be able to do IR inspections following written guidelines and to report the result of this inspection.

### Content

- Introduction to Thermography
- Camera Operation
- Basic physics of heat
- Basic physics of infrared
- Thermal pattern recognition and IR applications
- IR temperature measurement techniques
- Qualitative and quantitative thermography
- Inspection routines and reporting

### Student presentations

During the seminar, students will generate a small case study based on the lab exercises to be presented to the class.

### Labs

- Camera handling
- Level and Span
- Conduction pattern
- Forced convection
- Direct and indirect thermal measurement
- Thermal capacity
- Steady state and transient heat flow
- Evaporation and condensation
- Electrical application
- Emissivity and Reflected apparent temperature
- Spatial resolution
- Location and temperature measurement of a hot/cold spot
- Image transfer to the computer

**P/N: ITC-CER-5101**

© 2015, FLIR Systems, Inc.

#ITC-CER-5101; r. 23306; en-US

Course information	
Available languages	Chinese, Danish, Dutch, English, Finish, French, German, Greek, Hebrew, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (bra.), Romanian, Russian, Serbo-Croatian, Spanish, Swedish, Thai
Target group	<ul style="list-style-type: none"> <li>• Practical user</li> <li>• This course is designed for beginners in thermography with some experience in camera handling and limited IR knowledge, who want to take their first step to become a professional thermographer and want to qualify as a Level 1 certified thermographer.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>• having already some basic experience with IR thermography,</li> <li>• knowing the basic functions of the camera,</li> <li>• who wants to become a certified thermographer in order to gain a competitive advantage or who needs the certifications because of legal reasons or company internal regulations.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Be familiar with the basic operation of an infrared camera</li> <li>• Have the recommended experience within thermography according to relevant standards</li> </ul>

Course details	
Duration	35 – 40 hours
Structure	Theory and camera practice (hands-on) alternate every day, additional labs and software exercises at some days.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>• Attendance of 1 person</li> <li>• Might include more, such as lunch, depending on location and organizing entity</li> </ul>

Course organization	
ITC	The Level 1 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)

**P/N: ITC-CER-5101**

© 2015, FLIR Systems, Inc.

#ITC-CER-5101; r. 23306; en-US

- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)

**P/N: ITC-CER-5101**

© 2015, FLIR Systems, Inc.

#ITC-CER-5101; r. 23306; en-US

- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display



## P/N: ITC-CER-5109

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5109  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 1 certified thermographer. The participant will learn about the basics of infrared, how to operate the camera under different conditions and for various purposes, how to do an appropriate judgement of the measurement situation in the field and how to identify potential error sources. After the class, the participant will be able to do IR inspections following written guidelines and to report the result of this inspection.

### Content

- Introduction to Thermography
- Camera Operation
- Basic physics of heat
- Basic physics of infrared
- Thermal pattern recognition and IR applications
- IR temperature measurement techniques
- Qualitative and quantitative thermography
- Inspection routines and reporting

### Student presentations

During the seminar, students will generate a small case study based on the lab exercises to be presented to the class.

### Labs

- Camera handling
- Level and Span
- Conduction pattern
- Forced convection
- Direct and indirect thermal measurement
- Thermal capacity
- Steady state and transient heat flow
- Evaporation and condensation
- Electrical application
- Emissivity and Reflected apparent temperature
- Spatial resolution
- Location and temperature measurement of a hot/cold spot
- Image transfer to the computer

**P/N: ITC-CER-5109**

© 2015, FLIR Systems, Inc.

#ITC-CER-5109; r. 23306; en-US

Course information	
Available languages	Chinese, Danish, Dutch, English, Finish, French, German, Greek, Hebrew, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (bra.), Romanian, Russian, Serbo-Croatian, Spanish, Swedish, Thai
Target group	<ul style="list-style-type: none"> <li>Practical user</li> <li>This course is designed for beginners in thermography with some experience in camera handling and limited IR knowledge, who want to take their first step to become a professional thermographer and want to qualify as a Level 1 certified thermographer.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>having already some basic experience with IR thermography,</li> <li>knowing the basic functions of the camera,</li> <li>who wants to become a certified thermographer in order to gain a competitive advantage or who needs the certifications because of legal reasons or company internal regulations.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Be familiar with the basic operation of an infrared camera</li> <li>Have the recommended experience within thermography according to relevant standards</li> </ul>

Course details	
Duration	35 – 40 hours
Structure	Theory and camera practice (hands-on) alternate every day, additional labs and software exercises at some days.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>

Course organization	
ITC	The Level 1 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)

**P/N: ITC-CER-5109**

© 2015, FLIR Systems, Inc.

#ITC-CER-5109; r. 23306; en-US

- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310

**P/N: ITC-CER-5109**

© 2015, FLIR Systems, Inc.

#ITC-CER-5109; r. 23306; en-US

- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-CER-5205

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5205  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 2 certified thermographer. The participant will learn about topics in infrared thermography to increase the knowledge about infrared physics, heat science, infrared measurement equipment and its application. As a Level 2 thermographer the participant shall provide guidance to category 1 personnel in the areas of equipment selection, techniques, limitations, data analysis, corrective actions and reporting.

This partnumber is reserved for adding additional students to a level 2 on site class.

### Content

- Thermal science
- Heat transfer
- Temperature measurement
- Infrared science
- IR equipment and applications

### Student presentations

During the seminar, students shall present a prepared case study to the class. The maximum duration (excl. discussion) should be 7 minutes and the maximum number of 7 slides should not be exceeded.

### Labs (Note: Labs marked "(M)" are mandatory)

- Newton's law (class lab) (M)
- Advanced emissivity measurement (M)
- Variation of emissivity with the angle (M)
- Transient thermal transfer
- Indirect power measurement (M)
- IR-window transmission (M)
- Slit Response Function
- Hole Response Function (M)
- Parallel circuits

### Course information

Available languages	Dutch, English, German, French, Italian, Portuguese (bra.), Spanish, Swedish
Target group	<ul style="list-style-type: none"> <li>• Professional user</li> <li>• This course is designed for thermographers holding a Level 1 certificate, who want to increase their knowledge about IR thermography and who want to qualify as a Level 2 certified thermographer.</li> </ul>

**P/N: ITC-CER-5205**

© 2015, FLIR Systems, Inc.

#ITC-CER-5205; r. 23306; en-US

Course information	
Typical student	<ul style="list-style-type: none"> <li>A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>having several months of professional experience within thermography,</li> <li>versed in camera operation and reporting,</li> <li>holding a Level 1 certificate,</li> <li>who needs the Level 2 Certification for guidance and supervision of other thermographers or is interested in deeper understanding of IR thermography.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Valid Level 1 thermography certificate,</li> <li>Recommended experience within thermography according to relevant standards,</li> <li>Prepared case study to be presented at the Level 2 course and submitted towards qualification at course closing.</li> </ul>
Course details	
Duration	40 hours
Structure	Theory, camera practice (hands-on), and prepared case studies alternate every day.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>Attendance of 1 person</li> <li>Might include more, such as lunch, depending on location and organizing entity.</li> </ul>
Note	Only for non-EURO, non-SEK, non NOK, non- £, -non CHF countries
Course organization	
ITC	The Level 2 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in T560393 Courses offered by ITC partners. Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)

**P/N: ITC-CER-5205**

© 2015, FLIR Systems, Inc.

#ITC-CER-5205; r. 23306; en-US

- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°

**P/N: ITC-CER-5205**

© 2015, FLIR Systems, Inc.

#ITC-CER-5205; r. 23306; en-US

- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°



## P/N: ITC-CER-5201

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5201  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 2 certified thermographer. The participant will learn about topics in infrared thermography to increase the knowledge about infrared physics, heat science, infrared measurement equipment and its application. As a Level 2 thermographer the participant shall provide guidance to category 1 personnel in the areas of equipment selection, techniques, limitations, data analysis, corrective actions and reporting.

### Content

- Thermal science
- Heat transfer
- Temperature measurement
- Infrared science
- IR equipment and applications

### Student presentations

During the seminar, students shall present a prepared case study to the class. The maximum duration (excl. discussion) should be 7 minutes and the maximum number of 7 slides should not be exceeded.

### Labs (Note: Labs marked "(M)" are mandatory)

- Newton's law (class lab) (M)
- Advanced emissivity measurement (M)
- Variation of emissivity with the angle (M)
- Transient thermal transfer
- Indirect power measurement (M)
- IR-window transmission (M)
- Slit Response Function
- Hole Response Function (M)
- Parallel circuits

### Course information

#### Available languages

Dutch, English, German, French, Italian, Portuguese (bra.), Spanish, Swedish

#### Target group

- Professional user
- This course is designed for thermographers holding a Level 1 certificate, who want to increase their knowledge about IR thermography and who want to qualify as a Level 2 certified thermographer.

**P/N: ITC-CER-5201**

© 2015, FLIR Systems, Inc.

#ITC-CER-5201; r. 23306; en-US

Course information	
Typical student	<ul style="list-style-type: none"> <li>A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>having several months of professional experience within thermography,</li> <li>versed in camera operation and reporting,</li> <li>holding a Level 1 certificate,</li> <li>who needs the Level 2 Certification for guidance and supervision of other thermographers or is interested in deeper understanding of IR thermography.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Valid Level 1 thermography certificate,</li> <li>Recommended experience within thermography according to relevant standards,</li> <li>Prepared case study to be presented at the Level 2 course and submitted towards qualification at course closing.</li> </ul>
Course details	
Duration	40 hours
Structure	Theory, camera practice (hands-on), and prepared case studies alternate every day.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>Attendance of 1 person</li> <li>Might include more, such as lunch, depending on location and organizing entity.</li> </ul>
Course organization	
ITC	The Level 2 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in T560393 Courses offered by ITC partners. Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)

**P/N: ITC-CER-5201**

© 2015, FLIR Systems, Inc.

#ITC-CER-5201; r. 23306; en-US

- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°

**P/N: ITC-CER-5201**

© 2015, FLIR Systems, Inc.

#ITC-CER-5201; r. 23306; en-US

- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-CER-5209

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5209  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 2 certified thermographer. The participant will learn about topics in infrared thermography to increase the knowledge about infrared physics, heat science, infrared measurement equipment and its application. As a Level 2 thermographer the participant shall provide guidance to category 1 personnel in the areas of equipment selection, techniques, limitations, data analysis, corrective actions and reporting.

#### Content

- Thermal science
- Heat transfer
- Temperature measurement
- Infrared science
- IR equipment and applications

#### Student presentations

During the seminar, students shall present a prepared case study to the class. The maximum duration (excl. discussion) should be 7 minutes and the maximum number of 7 slides should not be exceeded.

#### Labs (Note: Labs marked "(M)" are mandatory)

- Newton's law (class lab) (M)
- Advanced emissivity measurement (M)
- Variation of emissivity with the angle (M)
- Transient thermal transfer
- Indirect power measurement (M)
- IR-window transmission (M)
- Slit Response Function
- Hole Response Function (M)
- Parallel circuits

### Course information

#### Available languages

Dutch, English, German, French, Italian, Portuguese (bra.), Spanish, Swedish

#### Target group

- Professional user
- This course is designed for thermographers holding a Level 1 certificate, who want to increase their knowledge about IR thermography and who want to qualify as a Level 2 certified thermographer.

**P/N: ITC-CER-5209**

© 2015, FLIR Systems, Inc.

#ITC-CER-5209; r. 23306; en-US

Course information	
Typical student	<ul style="list-style-type: none"> <li>A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>having several months of professional experience within thermography,</li> <li>versed in camera operation and reporting,</li> <li>holding a Level 1 certificate,</li> <li>who needs the Level 2 Certification for guidance and supervision of other thermographers or is interested in deeper understanding of IR thermography.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Valid Level 1 thermography certificate,</li> <li>Recommended experience within thermography according to relevant standards,</li> <li>Prepared case study to be presented at the Level 2 course and submitted towards qualification at course closing.</li> </ul>
Course details	
Duration	40 hours
Structure	Theory, camera practice (hands-on), and prepared case studies alternate every day.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as lunch, instructor's travel expenses, etc. depending on location and organizing entity.</li> </ul>
Course organization	
ITC	The Level 2 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in T560393 Courses offered by ITC partners. Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)

**P/N: ITC-CER-5209**

© 2015, FLIR Systems, Inc.

#ITC-CER-5209; r. 23306; en-US

- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°

**P/N: ITC-CER-5209**

© 2015, FLIR Systems, Inc.

#ITC-CER-5209; r. 23306; en-US

- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°



## P/N: ITC-PRA-2011

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-PRA-2011  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

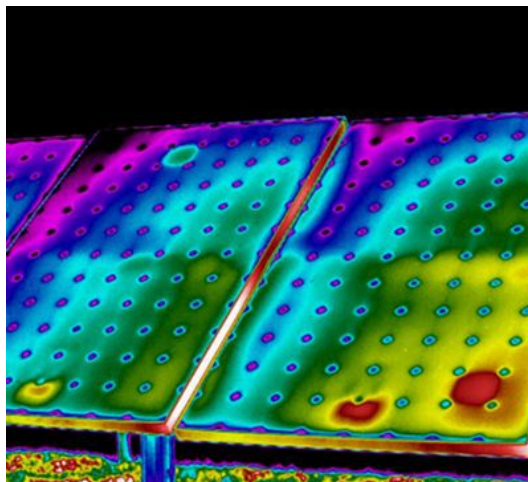
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course gives a general introduction to IR thermography and an overview on its specific use for inspections of photovoltaic solar systems.

During the first day, you learn about the basics of thermography, how a thermal camera works, and how to use it correctly. The second day starts with the basics of photovoltaic solar systems and solar panel installations. You learn about IR metrological particularities that are critical for solar panel inspections with a thermal camera, how to interpret the displayed thermal images, and in which way they can be associated to typical problems and faults. Emphasis is put on case studies, selected from the field, as well as practical exercises.

### Content

- Basics of thermography (radiation, spectral waveband, influences of the atmosphere)
- IR camera: principle, design and operation (FPA, measurement ranges, thermal tuning: level and span, color palettes)
- IR measurement technique: measurement parameters (emissivity, radiation from the environment, distance, relative humidity, atmospheric temperature)
- IR Camera figures of merit: resolution limits (thermal, spatial, time related)
- Practical exercises
- Basics of photovoltaic solar systems (terminology, design, principle of operation, module types)
- Solar panel installation: connection types (string, bypass diodes, shadowing)
- IR metrological particularity (spectral bands, inspection conditions, spatial resolution, camera positioning and angle)
- Typical thermal readouts (examples, causes and interpretation – defect/no defect, practical exercises)

### Course information

Available languages	English, French, German, Swedish, Italian, Dutch, Spanish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in the use of IR thermography for the inspection of photovoltaic solar systems.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person working with maintenance or installation of solar panels.</li> <li>• Thermographers familiar with electrical inspections and interested in solar panel inspections.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic knowledge in electrical installations or another technical field.</li> </ul>

### Course details

Duration	2 days
Structure	Theory, camera handling, demos and practical labs alternate.

**P/N: ITC-PRA-2011**

© 2015, FLIR Systems, Inc.

#ITC-PRA-2011; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by qualified ITC instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Might include more, such as lunch, depending on location</li> </ul>
Course organization	
ITC	The "ITC Practical Course Solar panel inspection" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC or ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Practical Course Solar panel inspection" is lectured by qualified ITC instructors with special experience in the field of solar panel installations.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5



---

**P/N: ITC-PRA-2011**

© 2015, FLIR Systems, Inc.

#ITC-PRA-2011; r. 23306; en-US

- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-PRA-2019

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-PRA-2019  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

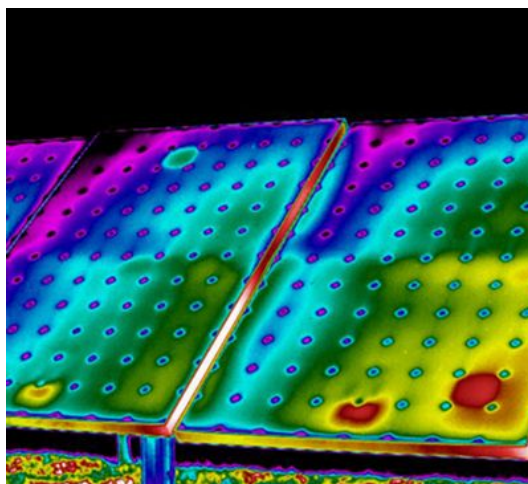
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course gives a general introduction to IR thermography and an overview on its specific use for inspections of photovoltaic solar systems.

During the first day, you learn about the basics of thermography, how a thermal camera works, and how to use it correctly. The second day starts with the basics of photovoltaic solar systems and solar panel installations. You learn about IR metrological particularities that are critical for solar panel inspections with a thermal camera, how to interpret the displayed thermal images, and in which way they can be associated to typical problems and faults. Emphasis is put on case studies, selected from the field, as well as practical exercises.

### Content

- Basics of thermography (radiation, spectral waveband, influences of the atmosphere)
- IR camera: principle, design and operation (FPA, measurement ranges, thermal tuning: level and span, color palettes)
- IR measurement technique: measurement parameters (emissivity, radiation from the environment, distance, relative humidity, atmospheric temperature)
- IR Camera figures of merit: resolution limits (thermal, spatial, time related)
- Practical exercises
- Basics of photovoltaic solar systems (terminology, design, principle of operation, module types)
- Solar panel installation: connection types (string, bypass diodes, shadowing)
- IR metrological particularity (spectral bands, inspection conditions, spatial resolution, camera positioning and angle)
- Typical thermal readouts (examples, causes and interpretation – defect/no defect, practical exercises)

### Course information

Available languages	English, French, German, Swedish, Italian, Dutch, Spanish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in the use of IR thermography for the inspection of photovoltaic solar systems.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person working with maintenance or installation of solar panels.</li> <li>• Thermographers familiar with electrical inspections and interested in solar panel inspections.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic knowledge in electrical installations or another technical field.</li> </ul>

### Course details

Duration	2 days
Structure	Theory, camera handling, demos and practical labs alternate.
Exam	None

**P/N: ITC-PRA-2019**

© 2015, FLIR Systems, Inc.

#ITC-PRA-2019; r. 23306; en-US

Course details	
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by qualified ITC instructor</li> <li>• Training material in printed format</li> <li>• Diploma of attendance</li> <li>• Attendance of a group up to 10 persons</li> <li>• Might include more, such as refreshments or lunch, depending on location.</li> </ul>
Note	Course fee does not include cost for instructor's travelling or lodging.
Course organization	
ITC	The "ITC Practical Course Solar panel inspection" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC or ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Practical Course Solar panel inspection" is lectured by qualified ITC instructors with special experience in the field of solar panel installations.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3



---

**P/N: ITC-PRA-2019**

© 2015, FLIR Systems, Inc.

#ITC-PRA-2019; r. 23306; en-US

- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-2036

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2036  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This 2-day course consists of lectures on theoretical subjects, plus hands-on.	
After a general review of heat and heat transfer, the participants will learn about radiative heat transfer, and thermography equipment. Intensive practice is performed on software.	
Content	
<ul style="list-style-type: none"> <li>• Introduction</li> <li>• Review on thermal transfer</li> <li>• Radiative heat transfer (includes estimation of T<sub>Refl</sub> and the emissivity) (with practice)</li> <li>• Thermography equipment</li> <li>• Software e.g. ThermoCAM Researcher, FLIR Quickplot or FLIR ResearchIR</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>• Measurements and software exercises</li> </ul>	
Course information	
Available languages	English, other languages upon request
Target group	<ul style="list-style-type: none"> <li>• Users of FLIR uncooled thermal cameras working with software programs as ThermoCAM Researcher, FLIR Quickplot or FLIR ResearchIR</li> <li>• and with infrared applications in the industry or at research institutions.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Laboratory and industry technical personnel</li> <li>• Researchers and scientists</li> <li>• University students</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic knowledge about thermography and related parameters.</li> <li>• Experience in measurement techniques and general software skills.</li> </ul>
Course details	
Duration	Standard: 2 days (in succession or separate)  Upon request: Additional day including complementary topics (ITC-EXP-3006)  Upon request: 1 day only (for experienced users with sufficient theoretical background)
Structure	Theory and hands-on

**P/N: ITC-EXP-2036**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2036; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training and/or reference material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 6 persons</li> </ul>
Note	This is normally an on-site course organized at a customer's facility. The fee does not include costs for instructor's travelling or lodging. The customer is responsible for providing access to the equipment or objects that should be analyzed or measured, a suitable meeting room, and preferably also refreshments/lunch.
Course organization	
ITC	The course "ITC R&D basics for industry users" is offered by ITC direct operations in EMEA. Specific customer requests shall be forwarded to the closest ITC or ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The course "ITC R&D basics for industry users" is delivered by ITC qualified instructors having the relevant expertise in advanced thermal measurement, infrared applications, and the use of the camera equipment including software programs.

**Compatible with the following products**

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°



**P/N: ITC-EXP-2036**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2036; r. 23306; en-US

- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-EXP-2041

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2041  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course gives a general introduction to IR thermography and an overview on its specific use for inspections of electrical systems. It aims at giving you clues on what you can do with your camera.

During the first day, you learn the basics of thermography and how to use your camera the best way. The second day you will start with a brief reminder of thermal transfers before you learn about electrical systems and components, material properties, typical problems and faults. Emphasis is put on case studies, selected from the field.

### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- IR Camera handling
- Basics of heat transfer
- Electrical systems
- Important properties of material
- Most common problems
- Case studies
- Common mistakes
- Application guidelines
- Data analysis and reports

### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement
- Electrical application labs

### Course information

Available languages	English, French, German, Swedish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in IR thermography and electrical applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person working with maintenance or installation of electrical systems</li> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> <li>• Students and pupils with thermography and electrical application related projects</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>

**P/N: ITC-EXP-2041**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2041; r. 23306; en-US

Course details	
Duration	2 days
Structure	Theory, camera handling, demos and practical labs alternate.
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by qualified ITC instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Might include more, such as lunch, depending on location</li> </ul>
Course organization	
ITC	The "ITC Short Course Electrical Thermography" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Electrical Thermography" is lectured by qualified ITC instructors with special experience in the field of electrical installations.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)



---

**P/N: ITC-EXP-2041**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2041; r. 23306; en-US

- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-2049

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2049  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course gives a general introduction to IR thermography and an overview on its specific use for inspections of electrical systems. It aims at giving you clues on what you can do with your camera.

During the first day, you learn the basics of thermography and how to use your camera the best way. The second day you will start with a brief reminder of thermal transfers before you learn about electrical systems and components, material properties, typical problems and faults. Emphasis is put on case studies, selected from the field.

### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- IR Camera handling
- Basics of heat transfer
- Electrical systems
- Important properties of material
- Most common problems
- Case studies
- Common mistakes
- Application guidelines
- Data analysis and reports

### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement
- Electrical application labs

### Course information

Available languages	English, French, German, Swedish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in IR thermography and electrical applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person working with maintenance or installation of electrical systems</li> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> <li>• Students and pupils with thermography and electrical application related projects</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>

**P/N: ITC-EXP-2049**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2049; r. 23306; en-US

Course details	
Duration	2 days
Structure	Theory, camera handling, demos and practical labs alternate.
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by qualified ITC instructor</li> <li>• Training material in printed format</li> <li>• Diploma of attendance</li> <li>• Attendance of a group up to 10 persons</li> <li>• Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	The "ITC Short Course Electrical Thermography" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Electrical Thermography" is lectured by qualified ITC instructors with special experience in the field of electrical installations.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)



---

**P/N: ITC-EXP-2049**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2049; r. 23306; en-US

- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-1019

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1019  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This is a full one day course for beginners and everybody interested in IR thermography and its applications. The course covers the basics of IR theory and includes demos, camera hand-on and practical exercises using relevant key labs.

#### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- Introduction to electrical and building inspections
- IR Camera handling
- Data analysis and reports

#### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement

### Course information

Available languages	English, French, German, Swedish, Danish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in IR thermography and its applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> <li>• A person who starts to use IR cameras at work</li> <li>• Students and pupils with thermography related projects</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>

### Course details

Duration	1 day
Structure	Theory, camera handling and demos in the morning. Practical labs in the afternoon.



**P/N: ITC-EXP-1019**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1019; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	The "ITC Short Course Introduction to Thermography" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Introduction to Thermography" is lectured by qualified ITC instructors with long time experience in the various fields of thermography.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)

**P/N: ITC-EXP-1019**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1019; r. 23306; en-US

- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC



---

**P/N: ITC-EXP-1019**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1019; r. 23306; en-US

- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-1011

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1011  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This is a full one day course for beginners and everybody interested in IR thermography and its applications. The course covers the basics of IR theory and includes demos, camera hand-on and practical exercises using relevant key labs.

#### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- Introduction to electrical and building inspections
- IR Camera handling
- Data analysis and reports

#### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement

### Course information

Available languages	English, French, German, Swedish, Danish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in IR thermography and its applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> <li>• A person who starts to use IR cameras at work</li> <li>• Students and pupils with thermography related projects</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>

### Course details

Duration	1 day
Structure	Theory, camera handling and demos in the morning. Practical labs in the afternoon.

**P/N: ITC-EXP-1011**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1011; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by qualified ITC instructor</li> <li>• Training material in printed format</li> <li>• Diploma of attendance</li> <li>• Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>
Course organization	
ITC	The "ITC Short Course Introduction to Thermography" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Introduction to Thermography" is lectured by qualified ITC instructors with long time experience in the various fields of thermography.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)

**P/N: ITC-EXP-1011**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1011; r. 23306; en-US

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL

---

**P/N: ITC-EXP-1011**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1011; r. 23306; en-US

- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-3006

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-3006  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

An additional day can be booked when the customer wants to extend the training content, software exercises or guided field practice.

The third day can be added to the following courses:

ITC-EXP-2036

### Content

- Customized, build on the topics of the course prior to the additional day

### Labs

- Customized, depending on the equipment used and the application of interest

### Course information

Available languages	English, other languages upon demand
Target group	<ul style="list-style-type: none"> <li>• Participants of short courses that are delivered on-site</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Persons with special interests in the equipment and their application requesting in-depth training or additional guidance.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Please refer to the pre-requisites of the course prior to the additional day</li> </ul>

### Course details

Duration	1 day
Structure	Customized upon the customer's request
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>• ITC qualified instructor teaching the class</li> <li>• Training material in printed format</li> <li>• Diploma of attendance</li> <li>• Attendance of a group up to 6 persons</li> <li>• Might include more, such as lunch, refreshments, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>





**P/N: ITC-EXP-3006**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3006; r. 23306; en-US

Course organization	
ITC	Additional days are offered by the ITC or ITC partner arranging the respective standard class prior to the additional day. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Additional days are normally lectured by the same ITC trainers lecturing the standard class prior to the additional day.

**Compatible with the following products**

- 42901-1001; FLIR A305sc
- 48001-1001; FLIR A325sc
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-SOW-0001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-SOW-0001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

These courses are for users of FLIR software like FLIR Reporter Professional or FLIR ResearchIR. Please observe that content and labs depend on the software used.

#### Content

- System requirements
- Configuration
- Analyzing functions
- Templates
- Reporting functions
- Data exchange

#### Labs

- System set up
- Data import
- Data analysis
- Creating templates
- Creating reports
- Exporting data
- Triggering

### Course information

Available languages	English, French, German, other languages upon request
Target group	<ul style="list-style-type: none"> <li>• Persons interested in, or users, of the specific software.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Consultants interested in reporting</li> <li>• Building inspectors with reporting needs</li> <li>• R&amp;D staff interested in advanced data analysis</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Laptop with installed software full version or 30 day demo (download on <a href="http://www.flir.com">www.flir.com</a>)</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic knowledge about thermography and related parameters.</li> </ul>

### Course details

Duration	Depends on software.
Structure	Short system introduction, then demos and practical exercises.

**P/N: ITC-SOW-0001**

© 2015, FLIR Systems, Inc.  
#ITC-SOW-0001; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>
Course organization	
ITC	Software courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Software courses are lectured by ITC qualified instructors experienced in usage of the software being subject of the class.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)

**P/N: ITC-SOW-0001**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0001; r. 23306; en-US

- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°

**P/N: ITC-SOW-0001**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0001; r. 23306; en-US

- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-SOW-0009

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-SOW-0009  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
These courses are for users of FLIR software like FLIR Reporter Professional or FLIR ResearchIR. Please observe that content and labs depend on the software used.	
Content	
<ul style="list-style-type: none"> <li>• System requirements</li> <li>• Configuration</li> <li>• Analyzing functions</li> <li>• Templates</li> <li>• Reporting functions</li> <li>• Data exchange</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>• System set up</li> <li>• Data import</li> <li>• Data analysis</li> <li>• Creating templates</li> <li>• Creating reports</li> <li>• Exporting data</li> <li>• Triggering</li> </ul>	
Course information	
Available languages	English, French, German, other languages upon request
Target group	<ul style="list-style-type: none"> <li>• Persons interested in, or users, of the specific software.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Consultants interested in reporting</li> <li>• Building inspectors with reporting needs</li> <li>• R&amp;D staff interested in advanced data analysis</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Laptop with installed software full version or 30 day demo (download on <a href="http://www.flir.com">www.flir.com</a>)</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic knowledge about thermography and related parameters.</li> </ul>
Course details	
Duration	Depends on software.
Structure	Short system introduction, then demos and practical exercises.

**P/N: ITC-SOW-0009**

© 2015, FLIR Systems, Inc.  
#ITC-SOW-0009; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	Software courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Software courses are lectured by ITC qualified instructors experienced in usage of the software being subject of the class.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm

**P/N: ITC-SOW-0009**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0009; r. 23306; en-US

- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°



**P/N: ITC-SOW-0009**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0009; r. 23306; en-US

- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-1001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	1 day
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-1001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1001; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-1001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1001; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-1001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1001; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-1009

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1009  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	1 day
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-1009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1009; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-1009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1009; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°



**P/N: ITC-EXP-1009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1009; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-2001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	2 days
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-2001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2001; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-2001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2001; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-2001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2001; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-2009

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2009  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	2 days
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-2009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2009; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-2009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2009; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°



**P/N: ITC-EXP-2009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2009; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-3001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-3001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	3 days
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-3001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3001; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-3001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3001; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-3001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3001; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-3009

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-3009  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	3 days
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-3009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3009; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-3009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3009; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°



**P/N: ITC-EXP-3009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3009; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-SOW-1001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-SOW-1001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

ITC Training FLIR Software - attendance 1 pers. (1 day)

### Course details

Duration	1 day
----------	-------

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)



---

**P/N: ITC-SOW-1001**

© 2015, FLIR Systems, Inc.

#ITC-SOW-1001; r. 23306; en-US

- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-SOW-2001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-SOW-2001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

ITC Training FLIR Software - attendance 1 pers. (2 days)

### Course details

Duration	2 days
----------	--------

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)



---

**P/N: ITC-SOW-2001**

© 2015, FLIR Systems, Inc.

#ITC-SOW-2001; r. 23306; en-US

- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TFT-0100

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TFT-0100  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

ITC travel time for instructor

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TFT-0100**

© 2015, FLIR Systems, Inc.  
#ITC-TFT-0100; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TFT-0100**

© 2015, FLIR Systems, Inc.  
#ITC-TFT-0100; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5



## P/N: ITC-FEE-0130

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-FEE-0130  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
EN - Repeat Certification EN473 IT Category 1	
Course information	
Available languages	DACH only
Course details	
Duration	1 day

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)



---

**P/N: ITC-FEE-0130**

© 2015, FLIR Systems, Inc.

#ITC-FEE-0130; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TOL-1003

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1003  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (Center and South Africa)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1003**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1003; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TOL-1003**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1003; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TOL-1001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (Europe, Balcans, Turkey, Cyprus)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1001**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1001; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TOL-1001**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1001; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5



## P/N: ITC-TOL-1005

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1005  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (other)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1005**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1005; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TOL-1005**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1005; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TOL-1002

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1002  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (Russia/GUS, Middle East, North Africa)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1002**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1002; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TOL-1002**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1002; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TOL-1004

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1004  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (various)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1004**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1004; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC



**P/N: ITC-TOL-1004**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1004; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## **Accessories for FLIR E/B series (discontinued camera series)**

---

## P/N: 1122000

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1122000  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Camera pouch for E Series, InfraCAM/BCAM and FLIR i/bXX with waist belt (max 1.2 m, 3.9 ft.) made of Codura fabric with externally attached battery pouch.

### Physical data

Weight	42 g (1.48 oz.)
Size (L x W x H)	300 x 180 x 90 mm (11.8 x 7.1 x 3.5 in.)
Color	Black

### Shipping information

Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009628
UPC-12	845188010201
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: 1195128

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1195128  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This cable is used to connect the infrared camera with a computer, using USB.	
Physical data	
Weight	50 g (1.8 oz.)
Cable length	1.5 m (4.9 ft.)
Connector	Standard USB-A to mini DIN 6-pin
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009574
UPC-12	845188010157
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: 1195129

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1195129  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This cable is used to connect the infrared camera with a computer, using serial communication (RS-232).

### Physical data

Weight	63 g (2.2 oz.)
Cable length	1.5 m (4.9 ft.)
Connector	9-pin D-sub to mini DIN 6-pin

### Shipping information

Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009567
UPC-12	845188010140
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: 1195221

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1195221  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Adjustable hand strap for the E-series	
Physical data	
Weight	9 g (0.32 oz.)
Length	300 mm (11.8 in.)
Color	Black
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009932
UPC-12	845188010478
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: 1195271

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1195271  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
The standard 25° lens is suitable for the majority of applications.	
Imaging and optical data	
Field of view (FOV)	24.5° × 19.05°/18.7° × 14.03°/20.2° × 15.15°
Minimum focus distance	0.3 m (0.98 ft.)
Focal length	17 mm (0.67 in.)
Spatial resolution (IFOV)	2.72 mrad/2.06 mrad/2.24 mrad
F-number	1.2
Lens note	When three pieces of data are separated by "/" the first piece of data is for cameras with a serial number starting with 215, the second piece of data is for cameras with a serial number starting with 243 and the last piece of data is for cameras with a serial number starting with 247
Physical data	
Weight	0.07 kg; 0.16 lbs. (lens excl. case & lens cap)
Size (L × D)	28 × 59 mm (1.10 × 2.32 in.)
Shipping information	
List of contents	<ul style="list-style-type: none"><li>• Lens</li><li>• Lens case</li></ul>
EAN-13	7332558009086
UPC-12	845188009625
Country of origin	Sweden

### Compatible with the following products

- N/A

**P/N: 1195272****Copyright**

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

**Document identity**

Publ. No.: 1195272  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

**Corporate Headquarters**

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

**Website**

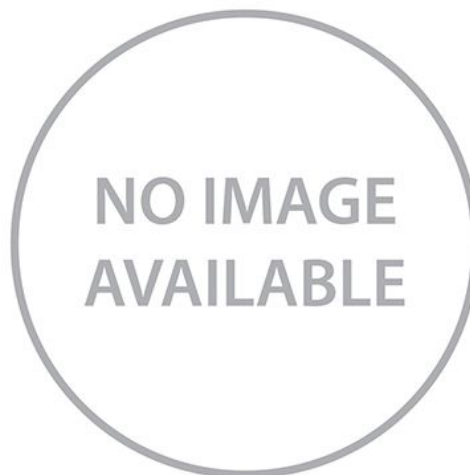
<http://www.flir.com>

**Customer support**

<http://support.flir.com>

**Disclaimer**

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
The 12° lens is a popular lens accessory and provides 2X magnification compared to the standard lens. Ideal for small or distant targets such as overhead power lines.	
Imaging and optical data	
Field of view (FOV)	11.7° × 8.78°/8.89° × 6.67°/9.65° × 7.24°
Minimum focus distance	0.7 m (2.3 ft.)
Focal length	36 mm (1.4 in.)
Spatial resolution (IFOV)	1.28 mrad/0.97 mrad/1.06 mrad
F-number	1.2
Lens note	When three pieces of data are separated by “/” the first piece of data is for cameras with a serial number starting with 215, the second piece of data is for cameras with a serial number starting with 243 and the last piece of data is for cameras with a serial number starting with 247
Physical data	
Weight	0.18 kg; 0.40 lbs. (lens excl. case & lens cap)
Size (L × D)	51 × 70 mm (2 × 2.76 in.)
Shipping information	
List of contents	<ul style="list-style-type: none"><li>• Lens</li><li>• Lens case</li></ul>
EAN-13	7332558009062
UPC-12	845188009601
Country of origin	Sweden

**Compatible with the following products**

- N/A



**P/N: 1195273****Copyright**

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

**Document identity**

Publ. No.: 1195273  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

**Corporate Headquarters**

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

**Website**

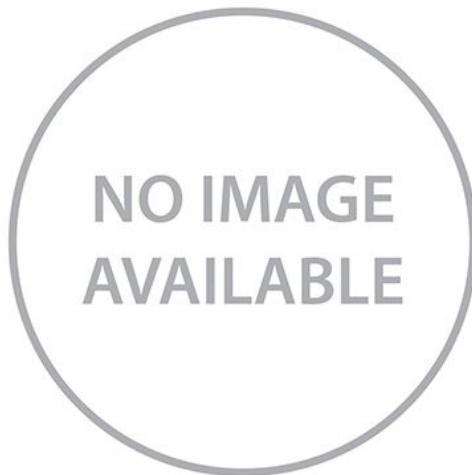
<http://www.flir.com>

**Customer support**

<http://support.flir.com>

**Disclaimer**

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.

**General description**

This wide angle lens has a field of view almost double that of the standard 25° lens. Perfect for wide or tall targets such as electrical panels or paper machinery.

**Imaging and optical data**

Field of view (FOV)	43.8° × 32.85°/33.8° × 25.35°/36.5° × 27.38°
Minimum focus distance	0.01 m (0.03 ft.)
Focal length	9.2 mm (0.36 in.)
Spatial resolution (IFOV)	5.03 mrad/3.8 mrad/4.13 mrad
F-number	1.2
Lens note	When three pieces of data are separated by “/” the first piece of data is for cameras with a serial number starting with 215, the second piece of data is for cameras with a serial number starting with 243 and the last piece of data is for cameras with a serial number starting with 247

**Physical data**

Weight	0.18 kg; 0.40 lbs. (lens excl. case & lens cap)
Size (L × D)	51 × 59 mm (2 × 2.32 in.)

**Shipping information**

List of contents	<ul style="list-style-type: none"><li>• Lens</li><li>• Lens case</li></ul>
EAN-13	7332558009079
UPC-12	845188009618
Country of origin	Sweden

**Compatible with the following products**

- N/A

## P/N: 1195436

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1195436  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

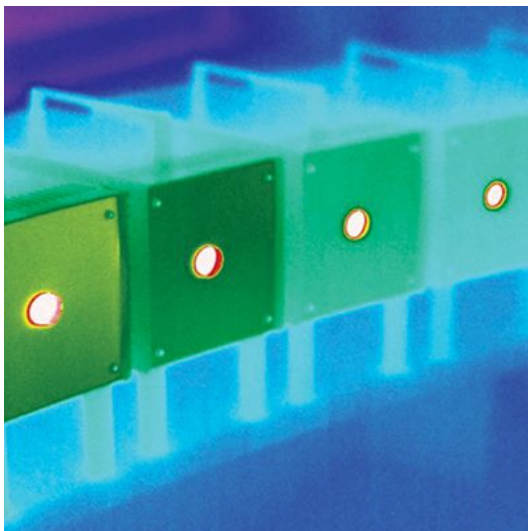
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

For high temperature applications the camera can be calibrated for high temperature ranges.

### Measurement

Optional object temperature range	Up to +900°C (+1652°F)
-----------------------------------	------------------------

### Compatibility

Compatible with FLIR products	ThermaCAM E Series (with 160 × 120 detector)
-------------------------------	--

### Compatible with the following products

- N/A

## P/N: 1195461

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1195461  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Sun shield for the E-series	
Physical data	
Weight	39 g (1.38 oz.)
Size (L × W × H)	80 × 35 × 65 mm (3.1 × 1.4 × 2.6 in.)
Material	Metal
Color	Black
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009925
UPC-12	845188010461
Country of origin	Sweden

### Compatible with the following products

- N/A



## Shield against stray light from LCD, for ThermaCAM™ Scout

**P/N: 1195492**

### Copyright

© 2015, FLIR Systems, Inc.

All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1195492

Commit: 23306

Language: en-US

Modified: 2015-02-23 15:46

Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.

27700 SW Parkway Ave.

Wilsonville, OR 97070

USA

Telephone: +1-503-498-3547

### Website

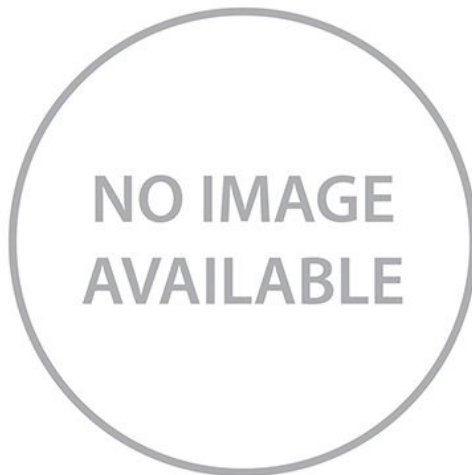
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Shield against stray light from LCD, for ThermaCAM™ Scout. Used in the dark to avoid light from the LCD.

### Shipping information

List of contents	• Shield
EAN-13	7332558009949
UPC-12	845188010485
Country of origin	Sweden

### Compatible with the following products

- N/A

**P/N: 1195577**

**Copyright**

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

**Document identity**

Publ. No.: 1195577  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

**Corporate Headquarters**

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

**Website**

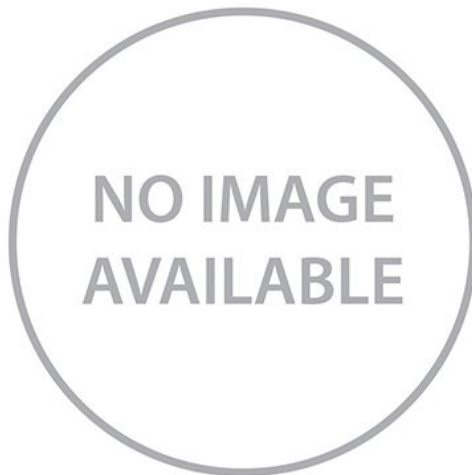
<http://www.flir.com>

**Customer support**

<http://support.flir.com>

**Disclaimer**

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Battery charger, incl. power supply, xx = US, UK, EU	
Power system	
AC operation	90–264 V, 47–63 Hz
Power	25 W
Shipping information	
List of contents	<ul style="list-style-type: none"><li>• Battery charger</li><li>• Power supply</li></ul>

**Compatible with the following products**

- N/A

**P/N: 1195578**

**Copyright**

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

**Document identity**

Publ. No.: 1195578  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

**Corporate Headquarters**

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

**Website**

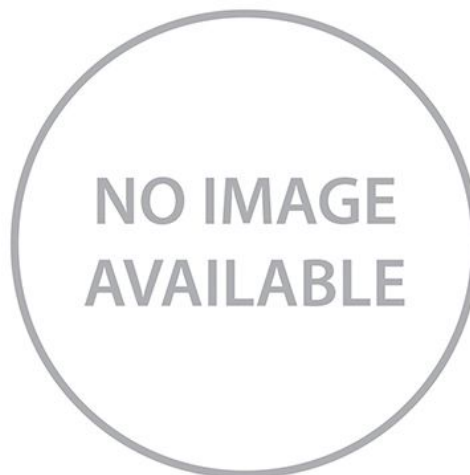
<http://www.flir.com>

**Customer support**

<http://support.flir.com>

**Disclaimer**

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Battery charger (Japan), incl. power supply	
Power system	
AC operation	90–264 V, 47–63 Hz
Power	25 W
Shipping information	
List of contents	<ul style="list-style-type: none"><li>Battery charger</li><li>Power supply</li></ul>
EAN-13	7332558009369
UPC-12	845188009892
Country of origin	Sweden

**Compatible with the following products**

- N/A

## P/N: 1196020

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1196020  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This lens is ideal for small or distant targets such as overhead power lines.	
Imaging and optical data	
Field of view (FOV)	4.87° × 3.65°/3.68° × 2.76°/4.0° × 3.0°
Focal length	87 mm (3.4 in.)
Spatial resolution (IFOV)	0.53 mrad/0.40 mrad/0.44 mrad
F-number	1.2
Lens note	When three pieces of data are separated by "/" the first piece of data is for cameras with a serial number starting with 215, the second piece of data is for cameras with a serial number starting with 243 and the last piece of data is for cameras with a serial number starting with 247
Shipping information	
List of contents	<ul style="list-style-type: none"><li>• Lens</li><li>• Lens case</li><li>• Mounting support</li></ul>

### Compatible with the following products

- N/A

## P/N: 1196326

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1196326  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Hard transport case for ThermaCAM™ E Series	
Shipping information	
List of contents	• Transport case
EAN-13	7332558009642
UPC-12	845188010225
Country of origin	Sweden

### Compatible with the following products

- N/A



## P/N: 1196355

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1196355  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

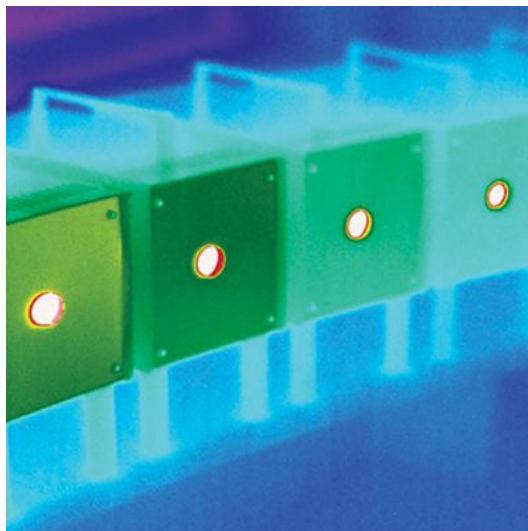
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

For high temperature applications the camera can be calibrated for high temperature ranges.  
An external filter is added to the 25° lens

### Measurement

Optional object temperature range	Up to +1200°C (+2192°F)
-----------------------------------	-------------------------

### Compatibility

Compatible with FLIR products	ThermaCAM EX300/320 Series (with 25°)
-------------------------------	---------------------------------------

### Compatible with the following products

- N/A

**P/N: 1196356****Copyright**

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

**Document identity**

Publ. No.: 1196356  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

**Corporate Headquarters**

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

**Website**

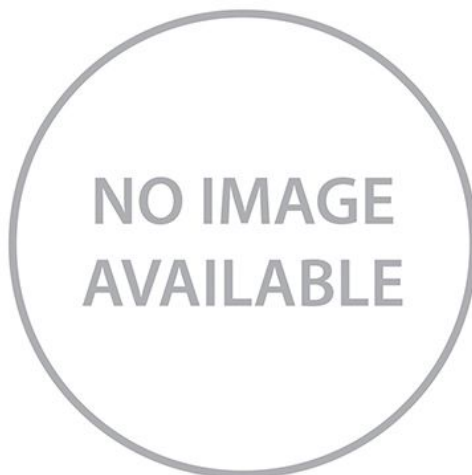
<http://www.flir.com>

**Customer support**

<http://support.flir.com>

**Disclaimer**

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This lens is ideal for small or distant targets such as overhead power lines.	
Imaging and optical data	
Field of view (FOV)	14.9° × 11.2°
Minimum focus distance	0.5 m (1.64 ft.)
Focal length	46.2 mm (1.82 in.)
Spatial resolution (IFOV)	0.82 mrad
F-number	1.5
Shipping information	
List of contents	<ul style="list-style-type: none"><li>• Lens</li><li>• Lens case</li></ul>
EAN-13	7332558009109
UPC-12	845188009649
Country of origin	Sweden

**Compatible with the following products**

- N/A

**P/N: 1196357**

**Copyright**

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

**Document identity**

Publ. No.: 1196357  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

**Corporate Headquarters**

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

**Website**

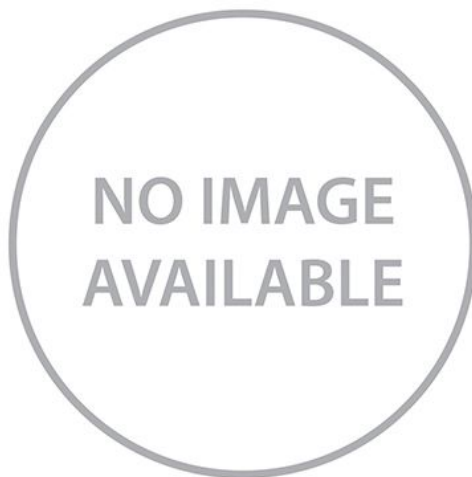
<http://www.flir.com>

**Customer support**

<http://support.flir.com>

**Disclaimer**

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This wide angle lens is perfect for wide or tall targets or when working in crowded spaces.	
Imaging and optical data	
Field of view (FOV)	44.9° × 33.7°
Minimum focus distance	0.20 m (0,66 ft.)
Focal length	14.7 mm (0.58 in.)
Spatial resolution (IFOV)	2.59 mrad
F-number	1.5
Shipping information	
List of contents	<ul style="list-style-type: none"><li>• Lens</li><li>• Lens case</li></ul>
EAN-13	7332558009093
UPC-12	845188009632
Country of origin	Sweden

**Compatible with the following products**

- N/A

**P/N: 1196359****Copyright**

© 2015, FLIR Systems, Inc.

All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

**Document identity**

Publ. No.: 1196359

Commit: 23306

Language: en-US

Modified: 2015-02-23 15:46

Formatted: 2015-05-12

**Corporate Headquarters**

FLIR Systems, Inc.

27700 SW Parkway Ave.

Wilsonville, OR 97070

USA

Telephone: +1-503-498-3547

**Website**

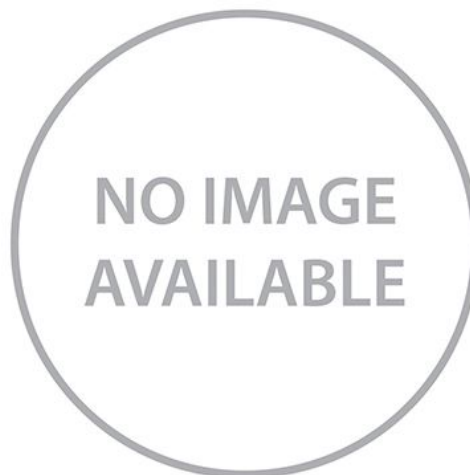
<http://www.flir.com>

**Customer support**

<http://support.flir.com>

**Disclaimer**

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This lens is suitable for the majority of applications.	
Imaging and optical data	
Field of view (FOV)	25.0° × 18.75°
Minimum focus distance	0.3 m (0.98 ft.)
Focal length	27.4 mm (1.08 in.)
Spatial resolution (IFOV)	1.39 mrad
F-number	1.5
Shipping information	
List of contents	<ul style="list-style-type: none"><li>• Lens</li><li>• Lens case</li></ul>
EAN-13	7332558009116
UPC-12	845188009656
Country of origin	Sweden

**Compatible with the following products**

- N/A

## P/N: 1196714

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1196714  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

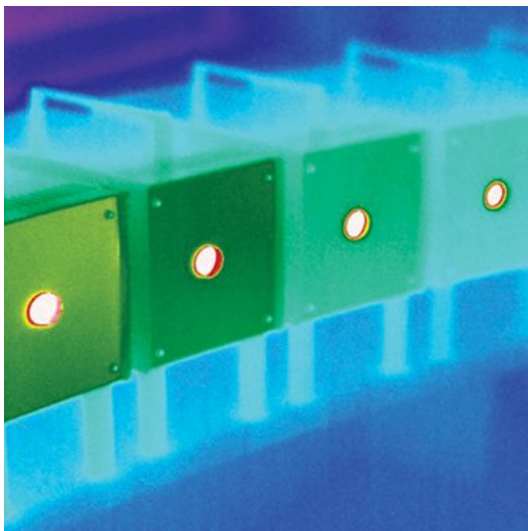
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

For high temperature applications the camera can be calibrated for high temperature ranges.

### Measurement

Optional object temperature range	Up to +1200°C (+2192°F)
-----------------------------------	-------------------------

### Compatibility

Compatible with FLIR products	ThermaCAM E300/320 Series (ULIS version)
-------------------------------	--

### Compatible with the following products

- N/A

## P/N: 1196741

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1196741  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

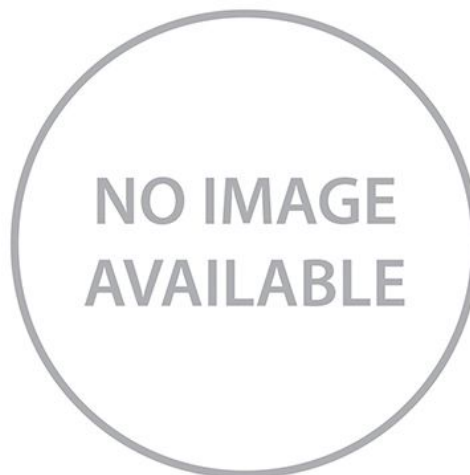
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This lens is suitable for the majority of applications.	
Imaging and optical data	
Field of view (FOV)	23.1° × 17.33
Minimum focus distance	0.3 m (0.98 ft.)
Focal length	27.4 mm (1.08 in.)
Spatial resolution (IFOV)	1.28 mrad
F-number	1.5
Shipping information	
List of contents	<ul style="list-style-type: none"><li>• Lens</li><li>• Lens case</li></ul>
EAN-13	7332558009147
UPC-12	845188009687
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: 1196742

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1196742  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This wide angle lens is perfect for wide or tall targets or when working in crowded spaces.	
Imaging and optical data	
Field of view (FOV)	41.7° × 31.27°
Minimum focus distance	0.2 m (0.66 ft.)
Focal length	14.7 mm (0.58 in.)
Spatial resolution (IFOV)	2.38 mrad
F-number	1.5
Shipping information	
List of contents	<ul style="list-style-type: none"><li>• Lens</li><li>• Lens case</li></ul>
EAN-13	7332558009130
UPC-12	845188009670
Country of origin	Sweden

### Compatible with the following products

- N/A

**P/N: 1196743**

**Copyright**

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

**Document identity**

Publ. No.: 1196743  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

**Corporate Headquarters**

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

**Website**

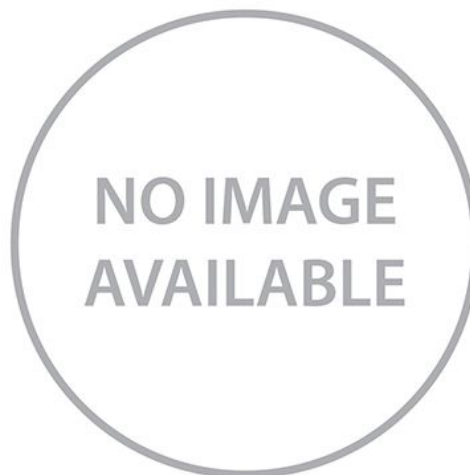
<http://www.flir.com>

**Customer support**

<http://support.flir.com>

**Disclaimer**

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This lens is ideal for small or distant targets such as overhead power lines.	
Imaging and optical data	
Field of view (FOV)	13.8° × 10.35°
Minimum focus distance	0.5 m (1.64 ft.)
Focal length	46.2 mm (1.82 in.)
Spatial resolution (IFOV)	0.76 mrad
F-number	1.5
Shipping information	
List of contents	<ul style="list-style-type: none"><li>• Lens</li><li>• Lens case</li></ul>
EAN-13	7332558009123
UPC-12	845188009663
Country of origin	Sweden

**Compatible with the following products**

- N/A



## P/N: 1909529

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1909529  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

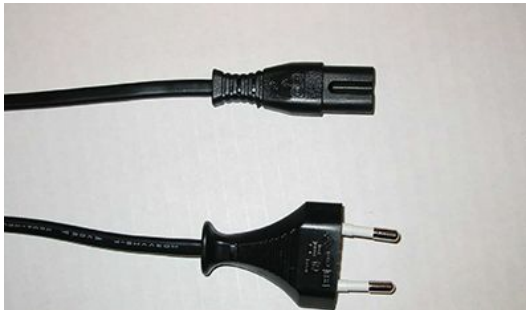
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Power cable for power supply 1910228.

250 VAC, 2.5 A.

2 poles.

Length: 1.5 to 2 m.

### Shipping information

Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009338
UPC-12	845188009861
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: 1909530

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1909530  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Power cable for Power supply 1910228.	
125 VAC, 7 A.	
2 poles.	
Length 1.5 to 2 m.	
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009345
UPC-12	845188009878
Country of origin	Sweden

### Compatible with the following products

- N/A

**P/N: 1909531**

**Copyright**

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

**Document identity**

Publ. No.: 1909531  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

**Corporate Headquarters**

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

**Website**

<http://www.flir.com>

**Customer support**

<http://support.flir.com>

**Disclaimer**

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Power cable for Power supply 1910228.	
250 VAC, 2.5 A.	
2 poles.	
Length 1.5 to 2 m.	
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009352
UPC-12	845188009885
Country of origin	Sweden

**Compatible with the following products**

- N/A

## P/N: 1910228

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1910228  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Power supply	
Power system	
AC operation	90–264 VAC, 47/63 Hz, 12 VDC ±5% output to the camera
Power	36 W
Physical data	
Size (L × W × H)	111 × 50 × 32 mm (4.4 × 2.0 × 1.3 in.)
Cable length	1.5 to 2.0 m (4.9 to 6.6 ft.)
Connector	DC cable with 2.5 mm center plug, barrel type
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009321
UPC-12	845188009854
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: ITC-CON-1001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CON-1001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

ITC conference fee

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-CON-1001**

© 2015, FLIR Systems, Inc.

#ITC-CON-1001; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-CON-1001**

© 2015, FLIR Systems, Inc.

#ITC-CON-1001; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TFT-0100

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TFT-0100  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

ITC travel time for instructor

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)



**P/N: ITC-TFT-0100**

© 2015, FLIR Systems, Inc.  
#ITC-TFT-0100; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TFT-0100**

© 2015, FLIR Systems, Inc.  
#ITC-TFT-0100; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TOL-1001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (Europe, Balcans, Turkey, Cyprus)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1001**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1001; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TOL-1001**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1001; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TOL-1002

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1002  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (Russia/GUS, Middle East, North Africa)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1002**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1002; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TOL-1002**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1002; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5



## P/N: ITC-TOL-1003

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1003  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (Center and South Africa)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1003**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1003; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TOL-1003**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1003; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TOL-1004

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1004  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (various)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1004**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1004; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TOL-1004**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1004; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TOL-1005

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1005  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (other)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1005**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1005; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC



**P/N: ITC-TOL-1005**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1005; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: T198586

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198586  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description
FLIR Reporter Professional is a powerful software for creating compelling and professional, fully customized, easy-to-interpret maintenance reports.
Professional Report Wizard guides you step-by-step in combining all IR inspection data - infrared and visual images, temperature measurements, and text notes – into a professional, easy-to-interpret maintenance report.
Key features:
<ul style="list-style-type: none"> <li>Flexible report page design and layout for customized reports</li> <li>Use quick insert function to easily create custom report pages</li> <li>Fully integrated with standard Microsoft Word</li> <li>Generates reports in standard MS Office format and PDF-format</li> <li>Powerful temperature analysis</li> <li>Triple Fusion Picture-in-Picture (movable, sizable, scalable)</li> <li>Rapid report manager supporting automatic report generation by drag-and-drop</li> <li>Support for MSX (Multi-Spectral Dynamic Imaging) images</li> <li>Support for sketch images in both IR and visual with on/off toggling</li> <li>Support for same FOV ("Field of View Match")</li> <li>Grid settings</li> <li>Trending functionality</li> <li>Automatic link to Google™ Maps for images with GPS coordinates</li> <li>Automatic summary table for the report</li> <li>Fine tune images and make full temperature analysis directly in Microsoft Word</li> <li>Spell check</li> <li>Create your own formulas including measurement values from images</li> <li>Play radiometric sequences directly in the report</li> <li>Search functionality to quickly finding images for your report</li> <li>Panorama tool for combining several images to a larger image</li> <li>Support for GF series IR images</li> <li>Auto Update function</li> <li>Office 2003 (32-bit), Office 2007 (32-bit) and Office 2010 (32-bit)</li> <li>Windows 7 (32 and 64-bit), Windows Vista (32 and 64-bit)</li> <li>Support for METERLiNK™ data</li> <li>*.docx compatibility</li> </ul>
Download
Download your copy of FLIR Reporter Professional here:
<a href="http://support.flir.com/reporter">http://support.flir.com/reporter</a>

**P/N: T198586**

© 2015, FLIR Systems, Inc.  
#T198586; r. 23306; en-US

Release notes	
Version	9.2
New features	<ul style="list-style-type: none"> <li>— News in 9.2: —</li> <li>Option to hide Zoom Viewer</li> <li>Option to extract Visual image from MSI/Fusion image.</li> <li>Support for the new FLIR Ex and Exx series cameras.</li> <li>Support for multispectral images.</li> <li>Support for auto-oriented images.</li> <li>Various bug fixes.</li> </ul>
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>FLIR Reporter Professional scratchcard</li> </ul>
Packaging, weight	0.135 kg (0.3 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005286 4743254001893 (Estonia plant)
UPC-12	845188005498
Country of origin	Sweden
System requirements	
Operating system	<ul style="list-style-type: none"> <li>Windows XP, 32-bit</li> <li>Windows Vista, 32-bit</li> <li>Windows Vista, 64-bit</li> <li>Windows 7, 32-bit</li> <li>Windows 7, 64-bit</li> </ul>
Software requirements	<ul style="list-style-type: none"> <li>Office 2007 (32-bit)</li> <li>Office 2010 (32-bit)</li> </ul>

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)

**P/N: T198586**

© 2015, FLIR Systems, Inc.  
#T198586; r. 23306; en-US

- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: T198258

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198258  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
High capacity battery for the IR camera.	
Note: Replaces 1195106 - Battery	
Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	7.2 VDC
Battery capacity	2.1 Ah
Battery note	Approximate lithium content: 1.5 g
Physical data	
Size (L x W x H)	89 x 42.2 x 19.8 mm (3.5 x 1.7 x 0.8 in.)
Shipping information	
List of contents	<ul style="list-style-type: none"><li>Battery</li><li>Instruction Battery charging</li></ul>
EAN-13	7332558009376
UPC-12	845188009908
Country of origin	Sweden

### Compatible with the following products

- N/A

**P/N: T198586**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: T198586  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description
FLIR Reporter Professional is a powerful software for creating compelling and professional, fully customized, easy-to-interpret maintenance reports.
Professional Report Wizard guides you step-by-step in combining all IR inspection data - infrared and visual images, temperature measurements, and text notes – into a professional, easy-to-interpret maintenance report.
Key features:
<ul style="list-style-type: none"> <li>• Flexible report page design and layout for customized reports</li> <li>• Use quick insert function to easily create custom report pages</li> <li>• Fully integrated with standard Microsoft Word</li> <li>• Generates reports in standard MS Office format and PDF-format</li> <li>• Powerful temperature analysis</li> <li>• Triple Fusion Picture-in-Picture (movable, sizable, scalable)</li> <li>• Rapid report manager supporting automatic report generation by drag-and-drop</li> <li>• Support for MSX (Multi-Spectral Dynamic Imaging) images</li> <li>• Support for sketch images in both IR and visual with on/off toggling</li> <li>• Support for same FOV ("Field of View Match")</li> <li>• Grid settings</li> <li>• Trending functionality</li> <li>• Automatic link to Google™ Maps for images with GPS coordinates</li> <li>• Automatic summary table for the report</li> <li>• Fine tune images and make full temperature analysis directly in Microsoft Word</li> <li>• Spell check</li> <li>• Create your own formulas including measurement values from images</li> <li>• Play radiometric sequences directly in the report</li> <li>• Search functionality to quickly finding images for your report</li> <li>• Panorama tool for combining several images to a larger image</li> <li>• Support for GF series IR images</li> <li>• Auto Update function</li> <li>• Office 2003 (32-bit), Office 2007 (32-bit) and Office 2010 (32-bit)</li> <li>• Windows 7 (32 and 64-bit), Windows Vista (32 and 64-bit)</li> <li>• Support for METERLiNK™ data</li> <li>• *.docx compatibility</li> </ul>
Download
Download your copy of FLIR Reporter Professional here:
<a href="http://support.flir.com/reporter">http://support.flir.com/reporter</a>

**P/N: T198586**

© 2015, FLIR Systems, Inc.  
#T198586; r. 23306; en-US

Release notes	
Version	9.2
New features	<ul style="list-style-type: none"> <li>— News in 9.2: —</li> <li>Option to hide Zoom Viewer</li> <li>Option to extract Visual image from MSI/Fusion image.</li> <li>Support for the new FLIR Ex and Exx series cameras.</li> <li>Support for multispectral images.</li> <li>Support for auto-oriented images.</li> <li>Various bug fixes.</li> </ul>
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>FLIR Reporter Professional scratchcard</li> </ul>
Packaging, weight	0.135 kg (0.3 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005286 4743254001893 (Estonia plant)
UPC-12	845188005498
Country of origin	Sweden
System requirements	
Operating system	<ul style="list-style-type: none"> <li>Windows XP, 32-bit</li> <li>Windows Vista, 32-bit</li> <li>Windows Vista, 64-bit</li> <li>Windows 7, 32-bit</li> <li>Windows 7, 64-bit</li> </ul>
Software requirements	<ul style="list-style-type: none"> <li>Office 2007 (32-bit)</li> <li>Office 2010 (32-bit)</li> </ul>

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)

**P/N: T198586**

© 2015, FLIR Systems, Inc.  
#T198586; r. 23306; en-US

- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)



## **Accessories for FLIR P/S series (discontinued camera series)**

---

## P/N: 1196325

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1196325  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Rugged, watertight plastic shipping case for ThermaCAM™ P/S Series. Holds all items neatly and securely. The case can be locked with padlocks and features a breather valve to prevent pressure build-up in airplane cargo holds.

### Physical data

Weight	3.5 kg (7.7 lb.)
Size (L × W × H)	488 × 386 × 185 mm (19.2 × 15.2 × 7.8 in.)
Color	Black

### Shipping information

Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009635
UPC-12	845188010218
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: 1195346

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1195346  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Remote control of the infrared camera, including a 4" LCD.	
Shipping information	
List of contents	• Remote control, incl. 4" LCD
EAN-13	7332558009703
UPC-12	845188010287
Country of origin	Sweden

### Compatible with the following products

- N/A

**P/N: T198586**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: T198586  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description
FLIR Reporter Professional is a powerful software for creating compelling and professional, fully customized, easy-to-interpret maintenance reports.
Professional Report Wizard guides you step-by-step in combining all IR inspection data - infrared and visual images, temperature measurements, and text notes – into a professional, easy-to-interpret maintenance report.
Key features:
<ul style="list-style-type: none"> <li>• Flexible report page design and layout for customized reports</li> <li>• Use quick insert function to easily create custom report pages</li> <li>• Fully integrated with standard Microsoft Word</li> <li>• Generates reports in standard MS Office format and PDF-format</li> <li>• Powerful temperature analysis</li> <li>• Triple Fusion Picture-in-Picture (movable, sizable, scalable)</li> <li>• Rapid report manager supporting automatic report generation by drag-and-drop</li> <li>• Support for MSX (Multi-Spectral Dynamic Imaging) images</li> <li>• Support for sketch images in both IR and visual with on/off toggling</li> <li>• Support for same FOV ("Field of View Match")</li> <li>• Grid settings</li> <li>• Trending functionality</li> <li>• Automatic link to Google™ Maps for images with GPS coordinates</li> <li>• Automatic summary table for the report</li> <li>• Fine tune images and make full temperature analysis directly in Microsoft Word</li> <li>• Spell check</li> <li>• Create your own formulas including measurement values from images</li> <li>• Play radiometric sequences directly in the report</li> <li>• Search functionality to quickly finding images for your report</li> <li>• Panorama tool for combining several images to a larger image</li> <li>• Support for GF series IR images</li> <li>• Auto Update function</li> <li>• Office 2003 (32-bit), Office 2007 (32-bit) and Office 2010 (32-bit)</li> <li>• Windows 7 (32 and 64-bit), Windows Vista (32 and 64-bit)</li> <li>• Support for METERLiNK™ data</li> <li>• *.docx compatibility</li> </ul>
Download
Download your copy of FLIR Reporter Professional here:
<a href="http://support.flir.com/reporter">http://support.flir.com/reporter</a>

**P/N: T198586**

© 2015, FLIR Systems, Inc.  
#T198586; r. 23306; en-US

Release notes	
Version	9.2
New features	<ul style="list-style-type: none"> <li>— News in 9.2: —</li> <li>Option to hide Zoom Viewer</li> <li>Option to extract Visual image from MSI/Fusion image.</li> <li>Support for the new FLIR Ex and Exx series cameras.</li> <li>Support for multispectral images.</li> <li>Support for auto-oriented images.</li> <li>Various bug fixes.</li> </ul>
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>FLIR Reporter Professional scratchcard</li> </ul>
Packaging, weight	0.135 kg (0.3 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005286 4743254001893 (Estonia plant)
UPC-12	845188005498
Country of origin	Sweden
System requirements	
Operating system	<ul style="list-style-type: none"> <li>Windows XP, 32-bit</li> <li>Windows Vista, 32-bit</li> <li>Windows Vista, 64-bit</li> <li>Windows 7, 32-bit</li> <li>Windows 7, 64-bit</li> </ul>
Software requirements	<ul style="list-style-type: none"> <li>Office 2007 (32-bit)</li> <li>Office 2010 (32-bit)</li> </ul>

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)

**P/N: T198586**

© 2015, FLIR Systems, Inc.  
#T198586; r. 23306; en-US

- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

**P/N: T198586**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: T198586  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description
FLIR Reporter Professional is a powerful software for creating compelling and professional, fully customized, easy-to-interpret maintenance reports.
Professional Report Wizard guides you step-by-step in combining all IR inspection data - infrared and visual images, temperature measurements, and text notes – into a professional, easy-to-interpret maintenance report.
Key features:
<ul style="list-style-type: none"> <li>• Flexible report page design and layout for customized reports</li> <li>• Use quick insert function to easily create custom report pages</li> <li>• Fully integrated with standard Microsoft Word</li> <li>• Generates reports in standard MS Office format and PDF-format</li> <li>• Powerful temperature analysis</li> <li>• Triple Fusion Picture-in-Picture (movable, sizable, scalable)</li> <li>• Rapid report manager supporting automatic report generation by drag-and-drop</li> <li>• Support for MSX (Multi-Spectral Dynamic Imaging) images</li> <li>• Support for sketch images in both IR and visual with on/off toggling</li> <li>• Support for same FOV ("Field of View Match")</li> <li>• Grid settings</li> <li>• Trending functionality</li> <li>• Automatic link to Google™ Maps for images with GPS coordinates</li> <li>• Automatic summary table for the report</li> <li>• Fine tune images and make full temperature analysis directly in Microsoft Word</li> <li>• Spell check</li> <li>• Create your own formulas including measurement values from images</li> <li>• Play radiometric sequences directly in the report</li> <li>• Search functionality to quickly finding images for your report</li> <li>• Panorama tool for combining several images to a larger image</li> <li>• Support for GF series IR images</li> <li>• Auto Update function</li> <li>• Office 2003 (32-bit), Office 2007 (32-bit) and Office 2010 (32-bit)</li> <li>• Windows 7 (32 and 64-bit), Windows Vista (32 and 64-bit)</li> <li>• Support for METERLiNK™ data</li> <li>• *.docx compatibility</li> </ul>
Download
Download your copy of FLIR Reporter Professional here:
<a href="http://support.flir.com/reporter">http://support.flir.com/reporter</a>

**P/N: T198586**

© 2015, FLIR Systems, Inc.  
#T198586; r. 23306; en-US

Release notes	
Version	9.2
New features	<ul style="list-style-type: none"> <li>— News in 9.2: —</li> <li>Option to hide Zoom Viewer</li> <li>Option to extract Visual image from MSI/Fusion image.</li> <li>Support for the new FLIR Ex and Exx series cameras.</li> <li>Support for multispectral images.</li> <li>Support for auto-oriented images.</li> <li>Various bug fixes.</li> </ul>
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>FLIR Reporter Professional scratchcard</li> </ul>
Packaging, weight	0.135 kg (0.3 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005286 4743254001893 (Estonia plant)
UPC-12	845188005498
Country of origin	Sweden
System requirements	
Operating system	<ul style="list-style-type: none"> <li>Windows XP, 32-bit</li> <li>Windows Vista, 32-bit</li> <li>Windows Vista, 64-bit</li> <li>Windows 7, 32-bit</li> <li>Windows 7, 64-bit</li> </ul>
Software requirements	<ul style="list-style-type: none"> <li>Office 2007 (32-bit)</li> <li>Office 2010 (32-bit)</li> </ul>

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)



**P/N: T198586**

© 2015, FLIR Systems, Inc.  
#T198586; r. 23306; en-US

- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: ITC-ADV-3055

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3055  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course bridges the gap between IR thermography, background science and application theory. The participant will learn fundamental concepts of heat and chemistry, to setup and to operate the furnace camera, and to adjust it for environmental conditions related to furnace applications.

Lab and/or field practice is a key part of this class. Basic inspection procedures will be covered including equipment checkout, route planning, permitting requirements, safety practices/equipment and reporting concepts.

This partnumber is reserved for adding additional students to an advanced furnace application on site class.

### Content

- Introduction
- Working environment (refineries, units, furnaces)
- General rules, camera set up and operation
- On site job organization and related procedures
- Basics of radiative thermal transfer
- Principles and limitations of IR furnace applications
- Discussion and evaluation of inspection and measurement results
- Methodology
- Reporting

### Labs

- On site job organization
- Follow the site inspection procedure
- Site measurements
- If possible, field work on-site inspecting real equipment

### Course information

Available languages	English, French
Target group	<ul style="list-style-type: none"> <li>• Users of FLIR furnace cameras such as the FLIR GF309.</li> <li>• Users of models like AGEMA 550, Inframetrics 290/390, FLIR ThermoCAM P25F/P50F</li> <li>• Qualified thermographers who want to learn more about furnace applications</li> <li>• Non thermographers who want to learn how to use GF cameras or other cameras suited for furnace applications for measurements in their industry</li> </ul>

**P/N: ITC-ADV-3055**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3055; r. 23306; en-US

Course information	
Typical student	<ul style="list-style-type: none"> <li>A person working with furnace applications in the industry and/or with surveillance and/or predictive maintenance and rather moderate knowledge on IR thermography or</li> <li>A person from another IR application field, with rather moderate knowledge about furnace applications and not too much experience of GF cameras.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Basic understanding and knowledge of natural sciences</li> <li>Technical background</li> </ul>
Course details	
Duration	3 days, additional days upon request (ITC-ADV-4006)
Structure	Theory classes with integrated hands-on during day one and the morning of day two and three, practical labs respective exam in the afternoon of day two and three.
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>
Note	This course can only be booked via ITC due to the FLIR GF camera export restrictions.
Course organization	
ITC	The ITC Advanced Furnace Application Course is offered worldwide by ITC subsidiaries. Specific customer requests shall be forwarded to the closest ITC subsidiary.
ITC Trainers and Licensed Trainers	The ITC Advanced Furnace Application is lectured by qualified ITC trainers with special expertise in handling the GF cameras and furnace applications.

**Compatible with the following products**

- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens

## P/N: ITC-ADV-3051

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3051  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course bridges the gap between IR thermography, background science and application theory. The participant will learn fundamental concepts of heat and chemistry, to setup and to operate the furnace camera, and to adjust it for environmental conditions related to furnace applications.

Lab and/or field practice is a key part of this class. Basic inspection procedures will be covered including equipment checkout, route planning, permitting requirements, safety practices/equipment and reporting concepts.

### Content

- Introduction
- Working environment (refineries, units, furnaces)
- General rules, camera set up and operation
- On site job organization and related procedures
- Basics of radiative thermal transfer
- Principles and limitations of IR furnace applications
- Discussion and evaluation of inspection and measurement results
- Methodology
- Reporting

### Labs

- On site job organization
- Follow the site inspection procedure
- Site measurements
- If possible, field work on-site inspecting real equipment

### Course information

Available languages	English, French
Target group	<ul style="list-style-type: none"> <li>• Users of FLIR furnace cameras such as the FLIR GF309.</li> <li>• Users of models like AGEMA 550, Inframetrics 290/390, FLIR ThermoCAM P25F/P50F</li> <li>• Qualified thermographers who want to learn more about furnace applications</li> <li>• Non thermographers who want to learn how to use GF cameras or other cameras suited for furnace applications for measurements in their industry</li> </ul>

**P/N: ITC-ADV-3051**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3051; r. 23306; en-US

Course information	
Typical student	<ul style="list-style-type: none"> <li>A person working with furnace applications in the industry and/or with surveillance and/or predictive maintenance and rather moderate knowledge on IR thermography or</li> <li>A person from another IR application field, with rather moderate knowledge about furnace applications and not too much experience of GF cameras.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Basic understanding and knowledge of natural sciences</li> <li>Technical background</li> </ul>
Course details	
Duration	3 days, additional days upon request (ITC-ADV-4006)
Structure	Theory classes with integrated hands-on during day one and the morning of day two and three, practical labs respective exam in the afternoon of day two and three.
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>
Note	This course can only be booked via ITC due to the FLIR GF camera export restrictions.
Course organization	
ITC	The ITC Advanced Furnace Application Course is offered worldwide by ITC subsidiaries. Specific customer requests shall be forwarded to the closest ITC subsidiary.
ITC Trainers and Licensed Trainers	The ITC Advanced Furnace Application is lectured by qualified ITC trainers with special expertise in handling the GF cameras and furnace applications.

**Compatible with the following products**

- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens

## P/N: ITC-ADV-3056

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3056  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course bridges the gap between IR thermography, background science and application theory. The participant will learn fundamental concepts of heat and chemistry, to setup and to operate the furnace camera, and to adjust it for environmental conditions related to furnace applications.

Lab and/or field practice is a key part of this class. Basic inspection procedures will be covered including equipment checkout, route planning, permitting requirements, safety practices/equipment and reporting concepts.

### Content

- Introduction
- Working environment (refineries, units, furnaces)
- General rules, camera set up and operation
- On site job organization and related procedures
- Basics of radiative thermal transfer
- Principles and limitations of IR furnace applications
- Discussion and evaluation of inspection and measurement results
- Methodology
- Reporting

### Labs

- On site job organization
- Follow the site inspection procedure
- Site measurements
- If possible, field work on-site inspecting real equipment

### Course information

Available languages	English, French
Target group	<ul style="list-style-type: none"> <li>• Users of FLIR furnace cameras such as the FLIR GF309.</li> <li>• Users of models like AGEMA 550, Inframetrics 290/390, FLIR ThermoCAM P25F/P50F</li> <li>• Qualified thermographers who want to learn more about furnace applications</li> <li>• Non thermographers who want to learn how to use GF cameras or other cameras suited for furnace applications for measurements in their industry</li> </ul>

**P/N: ITC-ADV-3056**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3056; r. 23306; en-US

Course information	
Typical student	<ul style="list-style-type: none"> <li>A person working with furnace applications in the industry and/or with surveillance and/or predictive maintenance and rather moderate knowledge on IR thermography or</li> <li>A person from another IR application field, with rather moderate knowledge about furnace applications and not too much experience of GF cameras.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Basic understanding and knowledge of natural sciences</li> <li>Technical background</li> </ul>
Course details	
Duration	3 days, additional days upon request (ITC-ADV-4006)
Structure	Theory classes with integrated hands-on during day one and the morning of day two and three, practical labs respective exam in the afternoon of day two and three.
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>ITC qualified instructor teaching the class</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 6 persons</li> <li>Might include more, such as lunch, refreshments, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Note	This course can only be booked via ITC due to the FLIR GF camera export restrictions.
Course organization	
ITC	The ITC Advanced Furnace Application Course is offered worldwide by ITC subsidiaries. Specific customer requests shall be forwarded to the closest ITC subsidiary.
ITC Trainers and Licensed Trainers	The ITC Advanced Furnace Application is lectured by qualified ITC trainers with special expertise in handling the GF cameras and furnace applications.

**Compatible with the following products**

- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens

## P/N: 1195650

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1195650  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
The 7° lens is a popular lens accessory and provides 3.5× magnification compared to the standard lens. Ideal for small or distant targets such as overhead power lines. The lens fits P and S-series.	
Imaging and optical data	
Field of view (FOV)	6,83° × 5.12°/5.61° × 4.21°
Minimum focus distance	4.0 m (13.11 ft.)
Focal length	124 mm (4.9 in.)
Spatial resolution (IFOV)	0.37 mrad/0.31 mrad
F-number	1.0
Lens note	When two pieces of data are separated by “/” the first piece of data is for cameras with a serial number starting with 218 or 234 and the second piece of data is for cameras with a serial number starting with 253
Physical data	
Weight	1.6 kg (3.53 lb.) incl. mechanical support
Size (L × D)	215 mm (8.46 in.) × 160.5 mm (6.32 in.)
Shipping information	
List of contents	<ul style="list-style-type: none"> <li>• Lens</li> <li>• Lens case</li> <li>• Mounting support</li> </ul>
EAN-13	7332558009048
UPC-12	845188009588
Country of origin	Sweden

### Compatible with the following products

- N/A



## P/N: 194176

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 194176  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The lens is a popular lens accessory and provides approximately 2× magnification compared to the standard lens. Ideal for small or distant targets such as overhead power lines.

### Imaging and optical data

Field of view (FOV)	11.7° × 8.78°/9.65° × 7.24°
Minimum focus distance	1.2 m (3.93 ft.)
Focal length	71.5 mm (28.1 in.)
Spatial resolution (IFOV)	0.64 mrad/0.53 mrad
F-number	1.0
Lens note	When two pieces of data are separated by “/” the first piece of data is for cameras with a serial number starting with 218, 234, 236 or 250 and the second piece of data is for cameras with a serial number starting with 253

### Shipping information

List of contents	<ul style="list-style-type: none"> <li>• Lens</li> <li>• Lens case</li> </ul>
EAN-13	7332558005835
UPC-12	845188006044
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: 194401

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 194401  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This wide angle lens has a field of view almost double that of the standard 24° lens. Perfect for wide or tall targets such as electrical panels or paper machinery.	
Imaging and optical data	
Field of view (FOV)	44.6° × 33.45°/37.3° × 27.97°
Minimum focus distance	0.1 m (0.32 ft.)
Focal length	18 mm (0.71 in.)
Spatial resolution (IFOV)	2.57 mrad/2.11 mrad
F-number	1.0
Lens note	When two pieces of data are separated by “/” the first piece of data is for cameras with a serial number starting with 218, 234, 236 or 250 and the second piece of data is for cameras with a serial number starting with 253
Shipping information	
List of contents	<ul style="list-style-type: none"> <li>• Lens</li> <li>• Lens case</li> </ul>

### Compatible with the following products

- N/A

## P/N: 194533

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 194533  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This close-up optic attaches to the standard built-in 24° lens and provides resolution of very small targets. Ideal for integrated circuit inspection applications.

### Imaging and optical data

Field of view (FOV)	64 mm/53 mm
Minimum focus distance	115 mm
Working distance	150 mm
Depth of field	±0.9 mm
Spatial resolution (IFOV)	200 µm/166 µm
Lens note	When two pieces of data are separated by “/” the first piece of data is for cameras with a serial number starting with 218, 234, 236 or 250 and the second piece of data is for cameras with a serial number starting with 253

### Shipping information

List of contents	<ul style="list-style-type: none"> <li>• Lens</li> <li>• Lens case</li> </ul>
------------------	---

### Compatible with the following products

- N/A

**P/N: 1194977**

**Copyright**

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

**Document identity**

Publ. No.: 1194977  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

**Corporate Headquarters**

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

**Website**

<http://www.flir.com>

**Customer support**

<http://support.flir.com>

**Disclaimer**

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Protective window for the built-in lens. The window is made of monocrystalline fluoride.	
Physical data	
Size (L × D)	48 × 71 mm (1.89 × 2.80 in.)
Shipping information	
List of contents	<ul style="list-style-type: none"><li>Protective window</li><li>Protective window case</li></ul>
EAN-13	7332558008461
UPC-12	845188008826
Country of origin	Sweden

**Compatible with the following products**

- N/A

## P/N: 194560

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 194560  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

A protective plastic window for the built-in lens, suitable when the camera is used in a dusty environment or when there is a risk of liquids splashing on the lens. The plastic film is made of polyolefin.

### Physical data

Weight	0,08 kg (0.17 lbs.)
Size (L x D)	41 x 87 mm (1.61 x 3.43 in.)

### Shipping information

List of contents	<ul style="list-style-type: none"><li>Protective plastic window</li><li>Protective plastic window case</li></ul>
EAN-13	7332558009055
UPC-12	845188009595
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: 1195438

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1195438  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

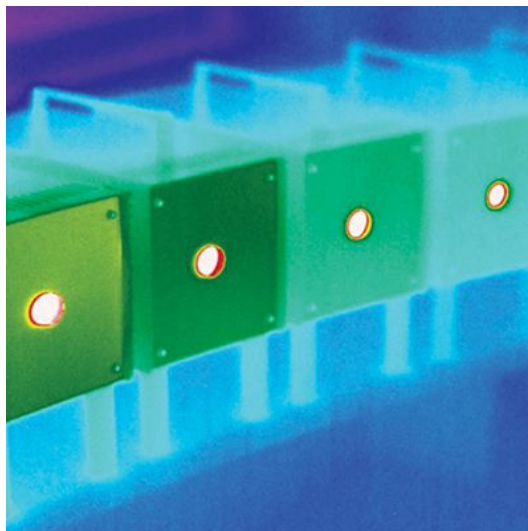
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
For high temperature applications the camera can be calibrated for high temperature ranges.	
Measurement	
Optional object temperature range	Up to +1500°C (+2732°F)
Compatibility	
Compatible with FLIR products	ThermaCAM P25 to P65, S65, B20 and ThermoVision A40 Series
Compatible with old FLIR products	ThermaCAM S45

### Compatible with the following products

- N/A

## P/N: 1195439

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1195439  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

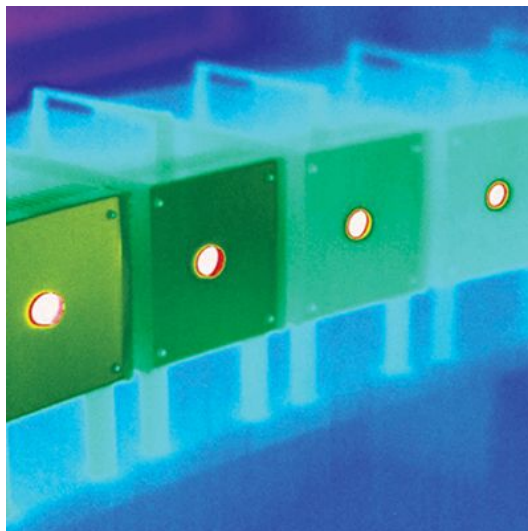
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

For high temperature applications the camera can be calibrated for high temperature ranges.

### Measurement

Optional object temperature range	Up to +2000°C (+3632°F)
-----------------------------------	-------------------------

### Compatibility

Compatible with FLIR products	ThermaCAM P25 to P65, S65, B20 and ThermoVision A40 Series
Compatible with old FLIR products	ThermaCAM S45

### Compatible with the following products

- N/A

## P/N: 1195437

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1195437  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

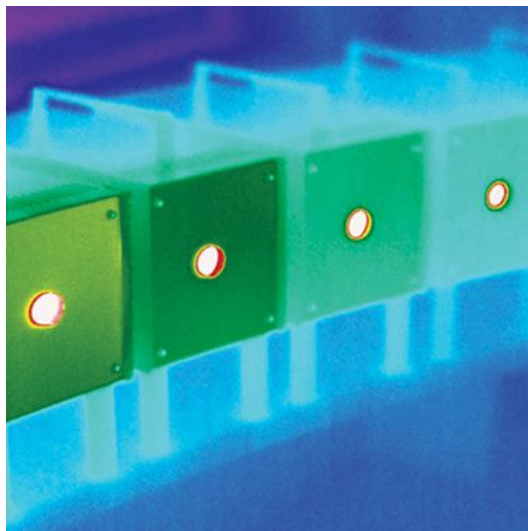
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
For high temperature applications the camera can be calibrated for high temperature ranges.	
Measurement	
Optional object temperature range	Up to +1000°C (+1832°F)
Compatibility	
Compatible with FLIR products	ThermaCAM P25 to P65, S65, B20 and ThermoVision A40 Series
Compatible with old FLIR products	ThermaCAM S45

### Compatible with the following products

- N/A



**P/N: 1195719**

**Copyright**

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

**Document identity**

Publ. No.: 1195719  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

**Corporate Headquarters**

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

**Website**

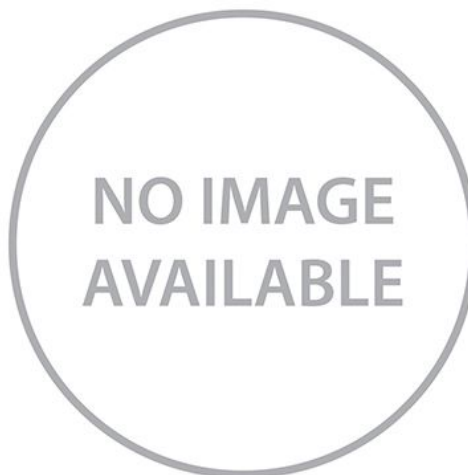
<http://www.flir.com>

**Customer support**

<http://support.flir.com>

**Disclaimer**

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Battery charger, incl, power supply, where xx = US, UK, EU	
Power system	
AC operation	90–264 V, 47–63 Hz
Power	25 W
Shipping information	
List of contents	<ul style="list-style-type: none"><li>Battery charger</li><li>Power supply</li></ul>

**Compatible with the following products**

- N/A

## P/N: 1910228

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1910228  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Power supply	
Power system	
AC operation	90–264 VAC, 47/63 Hz, 12 VDC ±5% output to the camera
Power	36 W
Physical data	
Size (L × W × H)	111 × 50 × 32 mm (4.4 × 2.0 × 1.3 in.)
Cable length	1.5 to 2.0 m (4.9 to 6.6 ft.)
Connector	DC cable with 2.5 mm center plug, barrel type
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009321
UPC-12	845188009854
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: T198288

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198288  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
High capacity battery for the IR camera.	
Note: Replaces 1195268 - Battery P/S series	
Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	9-16 VDC (11-16 VDC when charging)
Battery note	Approximate lithium content: 3.0 g
Charging system	In camera (AC adapter) or in battery charger
Physical data	
Battery weight	0.22 kg (0.48 lb.)
Shipping information	
List of contents	<ul style="list-style-type: none"><li>Battery</li><li>Instruction Battery charging</li></ul>
EAN-13	7332558007297
UPC-12	845188007669
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: 1909529

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1909529  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

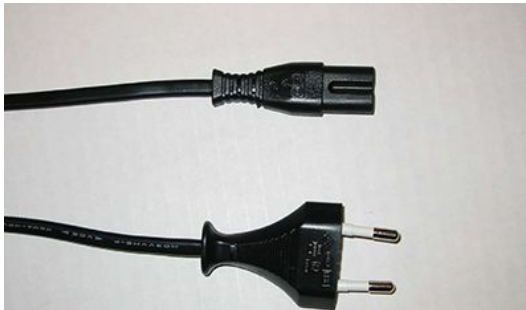
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Power cable for power supply 1910228.

250 VAC, 2.5 A.

2 poles.

Length: 1.5 to 2 m.

### Shipping information

Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009338
UPC-12	845188009861
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: 1909530

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1909530  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Power cable for Power supply 1910228.	
125 VAC, 7 A.	
2 poles.	
Length 1.5 to 2 m.	
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009345
UPC-12	845188009878
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: 1909531

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1909531  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Power cable for Power supply 1910228.	
250 VAC, 2.5 A.	
2 poles.	
Length 1.5 to 2 m.	
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009352
UPC-12	845188009885
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: 1195314

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1195314  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This cable is used to connect the infrared camera with a computer, using USB.	
Physical data	
Weight	90 g (3.2 oz.)
Cable length	1.5 m (4.9 ft.)
Connector	Standard USB-A to Lemo 6-pin
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009482
UPC-12	845188010065
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: 1195313

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1195313  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This cable is used to connect the infrared camera with a computer, using serial communication (RS-232).	
Physical data	
Weight	110 g (3.9 oz.)
Cable length	1.5 m (4.9 ft.)
Connector	9-pin D-sub to Lemo 6-pin
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009499
UPC-12	845188010072
Country of origin	Sweden

### Compatible with the following products

- N/A



## P/N: 1909813

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1909813  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This cable is used to connect the infrared camera with a computer, using FireWire.	
Physical data	
Weight	72 g (2.5 oz.)
Cable length	2.0 m (6.6 ft.)
Connector	FireWire 4-pin to 4-pin
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009505
UPC-12	845188010089
Country of origin	Sweden

### Compatible with the following products

- N/A

**P/N: 1909812****Copyright**

© 2015, FLIR Systems, Inc.

All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

**Document identity**

Publ. No.: 1909812

Commit: 23306

Language: en-US

Modified: 2015-02-23 15:46

Formatted: 2015-05-12

**Corporate Headquarters**

FLIR Systems, Inc.

27700 SW Parkway Ave.

Wilsonville, OR 97070

USA

Telephone: +1-503-498-3547

**Website**

<http://www.flir.com>

**Customer support**

<http://support.flir.com>

**Disclaimer**

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.

**General description**

This cable is used to connect the infrared camera with a computer, using FireWire.

**Physical data**

Weight	33 g (1.2 oz.)
Cable length	2.0 m (6.6 ft.)
Connector	FireWire 4-pin to 6-pin

**Shipping information**

Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009512
UPC-12	845188010096
Country of origin	Sweden

**Compatible with the following products**

- N/A

## P/N: 1909775

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1909775  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This cable is used to transfer video signals from the infrared camera to an external monitor, or to a computer featuring an internal video card.

### Physical data

Weight	76 g (2.7 oz.)
Cable length	2.0 m (6.6 ft.)
Connector	RCA to RCA

### Shipping information

Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009529
UPC-12	845188010102
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: 1909811

### Copyright

© 2015, FLIR Systems, Inc.

All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1909811

Commit: 23306

Language: en-US

Modified: 2015-02-23 15:46

Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.

27700 SW Parkway Ave.

Wilsonville, OR 97070

USA

Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This cable is used to transfer S-video signals from the infrared camera to an external monitor, or to a computer featuring an internal video card.

### Physical data

Weight	55 g (1.9 oz.)
Cable length	1.5 m (4.9 ft.)
Connector	S-video to mini DIN 4 pin

### Shipping information

Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009536
UPC-12	845188010119
Country of origin	Sweden

### Compatible with the following products

- N/A

**P/N: 1195143**

**Copyright**

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

**Document identity**

Publ. No.: 1195143  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

**Corporate Headquarters**

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

**Website**

<http://www.flir.com>

**Customer support**

<http://support.flir.com>

**Disclaimer**

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This cable is used to power the infrared camera from the cigarette lighter socket in a car.	
Physical data	
Weight	44 g (1.6 oz.)
Cable length	1.5 m (4.9 ft.)
Connector	Cigarette lighter connector to DC jack 2.5 mm
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009543
UPC-12	845188010126
Country of origin	Sweden

**Compatible with the following products**

- N/A

## P/N: 1195495

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1195495  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This cable is an extension cable for the remote control	
Physical data	
Weight	214 g (7.5 oz.)
Cable length	5.0 m (16.4 ft.)
Connector	Lemo 6 pin male to female
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009550
UPC-12	845188010133
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: 1909503

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1909503  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Video lens 12° for the digital camera for P25 to P65, S65 and B20 series.	
Physical data	
Weight	3 g (0.1 oz.)
Size (L × D)	Diameter: 13 mm (0.5 in.)
Shipping information	
List of contents	<ul style="list-style-type: none"><li>• Lens</li><li>• Lens cap</li></ul>
EAN-13	7332558009864
UPC-12	845188010409
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: 194109

### Copyright

© 2015, FLIR Systems, Inc.

All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 194109

Commit: 23306

Language: en-US

Modified: 2015-02-23 15:46

Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.

27700 SW Parkway Ave.

Wilsonville, OR 97070

USA

Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Headset for P25 to P65, S65 and B20 series. To be used for voice annotation.	
Physical data	
Weight	43 g (1.5 oz.)
Connector	Lemo
Shipping information	
List of contents	• Headset
EAN-13	7332558009871
UPC-12	845188010416
Country of origin	Sweden

### Compatible with the following products

- N/A



**P/N: 1195694**

**Copyright**

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

**Document identity**

Publ. No.: 1195694  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

**Corporate Headquarters**

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

**Website**

<http://www.flir.com>

**Customer support**

<http://support.flir.com>

**Disclaimer**

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Camera handle for P25 to P65, S65 and B20 series.	
Physical data	
Weight	94 g (03.3 oz.)
Shipping information	
List of contents	<ul style="list-style-type: none"><li>• Handle</li><li>• Mounting kit</li></ul>
EAN-13	7332558009888
UPC-12	845188010423
Country of origin	Sweden

**Compatible with the following products**

- N/A

## P/N: 1910232

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1910232  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

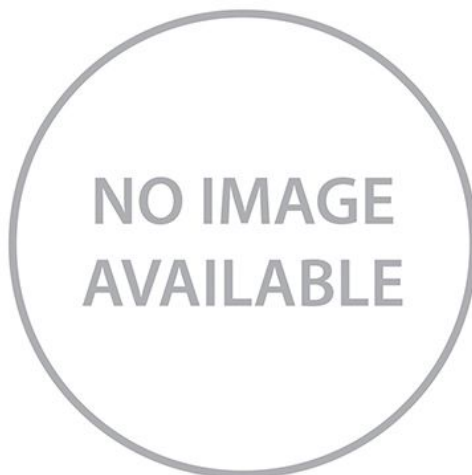
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Rugged, metal protective cap for LEMO connector (headset) for P25 to P65, S65 and B20 series.	
Shipping information	
List of contents	• Protective cap
EAN-13	7332558009895
UPC-12	845188010430
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: 1910233

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1910233  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Rugged, metal protective cap for LEMO connector (USB/RS-232 and RC) for P25 to P65, S65 and B20 series.	
Physical data	
Weight	7 g (0.2 oz.)
Shipping information	
List of contents	• Protective cap
EAN-13	7332558009901
UPC-12	845188010447
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: 1195994

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1195994  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Video lamp for the digital camera for P25 to P65, S65 and B20 series	
Physical data	
Weight	42 g (1.48 oz.)
Size (L × D)	80 × 23 mm (3.15 × 0.91 in.)
Connector	Lemo
Shipping information	
List of contents	• Video lamp
EAN-13	7332558009918
UPC-12	845188010454
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: 1196325

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1196325  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Rugged, watertight plastic shipping case for ThermaCAM™ P/S Series. Holds all items neatly and securely. The case can be locked with padlocks and features a breather valve to prevent pressure build-up in airplane cargo holds.

### Physical data

Weight	3.5 kg (7.7 lb.)
Size (L × W × H)	488 × 386 × 185 mm (19.2 × 15.2 × 7.8 in.)
Color	Black

### Shipping information

Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009635
UPC-12	845188010218
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: 1195346

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1195346  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Remote control of the infrared camera, including a 4" LCD.	
Shipping information	
List of contents	• Remote control, incl. 4" LCD
EAN-13	7332558009703
UPC-12	845188010287
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: T198586

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198586  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description
FLIR Reporter Professional is a powerful software for creating compelling and professional, fully customized, easy-to-interpret maintenance reports.
Professional Report Wizard guides you step-by-step in combining all IR inspection data - infrared and visual images, temperature measurements, and text notes – into a professional, easy-to-interpret maintenance report.
Key features:
<ul style="list-style-type: none"> <li>• Flexible report page design and layout for customized reports</li> <li>• Use quick insert function to easily create custom report pages</li> <li>• Fully integrated with standard Microsoft Word</li> <li>• Generates reports in standard MS Office format and PDF-format</li> <li>• Powerful temperature analysis</li> <li>• Triple Fusion Picture-in-Picture (movable, sizable, scalable)</li> <li>• Rapid report manager supporting automatic report generation by drag-and-drop</li> <li>• Support for MSX (Multi-Spectral Dynamic Imaging) images</li> <li>• Support for sketch images in both IR and visual with on/off toggling</li> <li>• Support for same FOV ("Field of View Match")</li> <li>• Grid settings</li> <li>• Trending functionality</li> <li>• Automatic link to Google™ Maps for images with GPS coordinates</li> <li>• Automatic summary table for the report</li> <li>• Fine tune images and make full temperature analysis directly in Microsoft Word</li> <li>• Spell check</li> <li>• Create your own formulas including measurement values from images</li> <li>• Play radiometric sequences directly in the report</li> <li>• Search functionality to quickly finding images for your report</li> <li>• Panorama tool for combining several images to a larger image</li> <li>• Support for GF series IR images</li> <li>• Auto Update function</li> <li>• Office 2003 (32-bit), Office 2007 (32-bit) and Office 2010 (32-bit)</li> <li>• Windows 7 (32 and 64-bit), Windows Vista (32 and 64-bit)</li> <li>• Support for METERLiNK™ data</li> <li>• *.docx compatibility</li> </ul>
Download
Download your copy of FLIR Reporter Professional here:
<a href="http://support.flir.com/reporter">http://support.flir.com/reporter</a>

**P/N: T198586**

© 2015, FLIR Systems, Inc.  
#T198586; r. 23306; en-US

Release notes	
Version	9.2
New features	<ul style="list-style-type: none"> <li>— News in 9.2: —</li> <li>Option to hide Zoom Viewer</li> <li>Option to extract Visual image from MSI/Fusion image.</li> <li>Support for the new FLIR Ex and Exx series cameras.</li> <li>Support for multispectral images.</li> <li>Support for auto-oriented images.</li> <li>Various bug fixes.</li> </ul>
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>FLIR Reporter Professional scratchcard</li> </ul>
Packaging, weight	0.135 kg (0.3 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005286 4743254001893 (Estonia plant)
UPC-12	845188005498
Country of origin	Sweden
System requirements	
Operating system	<ul style="list-style-type: none"> <li>Windows XP, 32-bit</li> <li>Windows Vista, 32-bit</li> <li>Windows Vista, 64-bit</li> <li>Windows 7, 32-bit</li> <li>Windows 7, 64-bit</li> </ul>
Software requirements	<ul style="list-style-type: none"> <li>Office 2007 (32-bit)</li> <li>Office 2010 (32-bit)</li> </ul>

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)



**P/N: T198586**

© 2015, FLIR Systems, Inc.  
#T198586; r. 23306; en-US

- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

**P/N: T198586**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: T198586  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description
FLIR Reporter Professional is a powerful software for creating compelling and professional, fully customized, easy-to-interpret maintenance reports.
Professional Report Wizard guides you step-by-step in combining all IR inspection data - infrared and visual images, temperature measurements, and text notes – into a professional, easy-to-interpret maintenance report.
Key features:
<ul style="list-style-type: none"> <li>• Flexible report page design and layout for customized reports</li> <li>• Use quick insert function to easily create custom report pages</li> <li>• Fully integrated with standard Microsoft Word</li> <li>• Generates reports in standard MS Office format and PDF-format</li> <li>• Powerful temperature analysis</li> <li>• Triple Fusion Picture-in-Picture (movable, sizable, scalable)</li> <li>• Rapid report manager supporting automatic report generation by drag-and-drop</li> <li>• Support for MSX (Multi-Spectral Dynamic Imaging) images</li> <li>• Support for sketch images in both IR and visual with on/off toggling</li> <li>• Support for same FOV ("Field of View Match")</li> <li>• Grid settings</li> <li>• Trending functionality</li> <li>• Automatic link to Google™ Maps for images with GPS coordinates</li> <li>• Automatic summary table for the report</li> <li>• Fine tune images and make full temperature analysis directly in Microsoft Word</li> <li>• Spell check</li> <li>• Create your own formulas including measurement values from images</li> <li>• Play radiometric sequences directly in the report</li> <li>• Search functionality to quickly finding images for your report</li> <li>• Panorama tool for combining several images to a larger image</li> <li>• Support for GF series IR images</li> <li>• Auto Update function</li> <li>• Office 2003 (32-bit), Office 2007 (32-bit) and Office 2010 (32-bit)</li> <li>• Windows 7 (32 and 64-bit), Windows Vista (32 and 64-bit)</li> <li>• Support for METERLiNK™ data</li> <li>• *.docx compatibility</li> </ul>
Download
Download your copy of FLIR Reporter Professional here:
<a href="http://support.flir.com/reporter">http://support.flir.com/reporter</a>

**P/N: T198586**

© 2015, FLIR Systems, Inc.  
#T198586; r. 23306; en-US

Release notes	
Version	9.2
New features	<ul style="list-style-type: none"> <li>— News in 9.2: —</li> <li>Option to hide Zoom Viewer</li> <li>Option to extract Visual image from MSI/Fusion image.</li> <li>Support for the new FLIR Ex and Exx series cameras.</li> <li>Support for multispectral images.</li> <li>Support for auto-oriented images.</li> <li>Various bug fixes.</li> </ul>
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>FLIR Reporter Professional scratchcard</li> </ul>
Packaging, weight	0.135 kg (0.3 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005286 4743254001893 (Estonia plant)
UPC-12	845188005498
Country of origin	Sweden
System requirements	
Operating system	<ul style="list-style-type: none"> <li>Windows XP, 32-bit</li> <li>Windows Vista, 32-bit</li> <li>Windows Vista, 64-bit</li> <li>Windows 7, 32-bit</li> <li>Windows 7, 64-bit</li> </ul>
Software requirements	<ul style="list-style-type: none"> <li>Office 2007 (32-bit)</li> <li>Office 2010 (32-bit)</li> </ul>

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)

**P/N: T198586**

© 2015, FLIR Systems, Inc.  
#T198586; r. 23306; en-US

- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: DSW-10000

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: DSW-10000  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

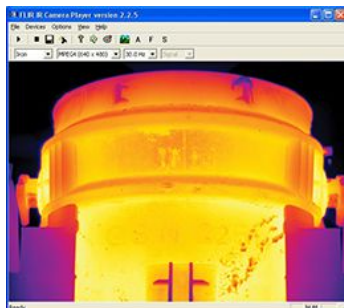
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

FLIR IR Camera Player is a PC-based remote control and viewer that you can use with cameras from FLIR Systems.

You can perform one or more of the following with FLIR IR Camera Player:

- Record a video stream from the camera.
- Save a frame from the video stream as a snapshot image (\*.bmp).
- Autofocus, focus far, and focus near.
- Autoadjust the camera image.
- Freeze the camera image.
- Save a camera image in the camera.
- Change Color palette.
- Add an image description and a text comment to an image.

You connect a camera in one of the following ways:

- Ethernet
- FireWire
- USB

### Download

This software is a freeware. To download, click the following link:

<http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=89>

### Release notes

Version	2.3.3
New features	<p>Main improvements in version 2.3.3:</p> <ul style="list-style-type: none"> <li>• Added latest device drivers (1.9.1.0).</li> <li>• Various bugfixes</li> </ul> <p>Main improvements in version 2.2.7:</p> <ul style="list-style-type: none"> <li>• Added support for FLIR Ax5 series.</li> </ul>

### System requirements

Operating system	<ul style="list-style-type: none"> <li>• Windows XP, 32-bit</li> <li>• Windows Vista, 32-bit/64-bit</li> <li>• Windows 7, 32-bit/64-bit</li> </ul>
------------------	--

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)

**P/N: DSW-10000**

© 2015, FLIR Systems, Inc.  
#DSW-10000; r. 24597; en-US

- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc

**P/N: DSW-10000**

© 2015, FLIR Systems, Inc.  
#DSW-10000; r. 24597; en-US

- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)



---

**P/N: DSW-10000**

© 2015, FLIR Systems, Inc.  
#DSW-10000; r. 24597; en-US

- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)



## P/N: 1195650

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1195650  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
The 7° lens is a popular lens accessory and provides 3.5× magnification compared to the standard lens. Ideal for small or distant targets such as overhead power lines. The lens fits P and S-series.	
Imaging and optical data	
Field of view (FOV)	6,83° × 5.12°/5.61° × 4.21°
Minimum focus distance	4.0 m (13.11 ft.)
Focal length	124 mm (4.9 in.)
Spatial resolution (IFOV)	0.37 mrad/0.31 mrad
F-number	1.0
Lens note	When two pieces of data are separated by “/” the first piece of data is for cameras with a serial number starting with 218 or 234 and the second piece of data is for cameras with a serial number starting with 253
Physical data	
Weight	1.6 kg (3.53 lb.) incl. mechanical support
Size (L × D)	215 mm (8.46 in.) × 160.5 mm (6.32 in.)
Shipping information	
List of contents	<ul style="list-style-type: none"> <li>• Lens</li> <li>• Lens case</li> <li>• Mounting support</li> </ul>
EAN-13	7332558009048
UPC-12	845188009588
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: 194176

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 194176  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The lens is a popular lens accessory and provides approximately 2× magnification compared to the standard lens. Ideal for small or distant targets such as overhead power lines.

### Imaging and optical data

Field of view (FOV)	11.7° × 8.78°/9.65° × 7.24°
Minimum focus distance	1.2 m (3.93 ft.)
Focal length	71.5 mm (28.1 in.)
Spatial resolution (IFOV)	0.64 mrad/0.53 mrad
F-number	1.0
Lens note	When two pieces of data are separated by “/” the first piece of data is for cameras with a serial number starting with 218, 234, 236 or 250 and the second piece of data is for cameras with a serial number starting with 253

### Shipping information

List of contents	<ul style="list-style-type: none"><li>• Lens</li><li>• Lens case</li></ul>
EAN-13	7332558005835
UPC-12	845188006044
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: 194401

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 194401  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This wide angle lens has a field of view almost double that of the standard 24° lens. Perfect for wide or tall targets such as electrical panels or paper machinery.	
Imaging and optical data	
Field of view (FOV)	44.6° × 33.45°/37.3° × 27.97°
Minimum focus distance	0.1 m (0.32 ft.)
Focal length	18 mm (0.71 in.)
Spatial resolution (IFOV)	2.57 mrad/2.11 mrad
F-number	1.0
Lens note	When two pieces of data are separated by “/” the first piece of data is for cameras with a serial number starting with 218, 234, 236 or 250 and the second piece of data is for cameras with a serial number starting with 253
Shipping information	
List of contents	<ul style="list-style-type: none"> <li>• Lens</li> <li>• Lens case</li> </ul>

### Compatible with the following products

- N/A

## P/N: 194533

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 194533  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This close-up optic attaches to the standard built-in 24° lens and provides resolution of very small targets. Ideal for integrated circuit inspection applications.	
Imaging and optical data	
Field of view (FOV)	64 mm/53 mm
Minimum focus distance	115 mm
Working distance	150 mm
Depth of field	±0.9 mm
Spatial resolution (IFOV)	200 µm/166 µm
Lens note	When two pieces of data are separated by “/” the first piece of data is for cameras with a serial number starting with 218, 234, 236 or 250 and the second piece of data is for cameras with a serial number starting with 253
Shipping information	
List of contents	<ul style="list-style-type: none"> <li>• Lens</li> <li>• Lens case</li> </ul>

### Compatible with the following products

- N/A

## P/N: 1194977

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1194977  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Protective window for the built-in lens. The window is made of monocrystalline fluoride.	
Physical data	
Size (L × D)	48 × 71 mm (1.89 × 2.80 in.)
Shipping information	
List of contents	<ul style="list-style-type: none"><li>Protective window</li><li>Protective window case</li></ul>
EAN-13	7332558008461
UPC-12	845188008826
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: 194560

### Copyright

© 2015, FLIR Systems, Inc.

All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 194560

Commit: 23306

Language: en-US

Modified: 2015-02-23 15:46

Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.

27700 SW Parkway Ave.

Wilsonville, OR 97070

USA

Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

A protective plastic window for the built-in lens, suitable when the camera is used in a dusty environment or when there is a risk of liquids splashing on the lens. The plastic film is made of polyolefin.

### Physical data

Weight	0,08 kg (0.17 lbs.)
Size (L x D)	41 x 87 mm (1.61 x 3.43 in.)

### Shipping information

List of contents	<ul style="list-style-type: none"><li>Protective plastic window</li><li>Protective plastic window case</li></ul>
EAN-13	7332558009055
UPC-12	845188009595
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: 1195438

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1195438  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

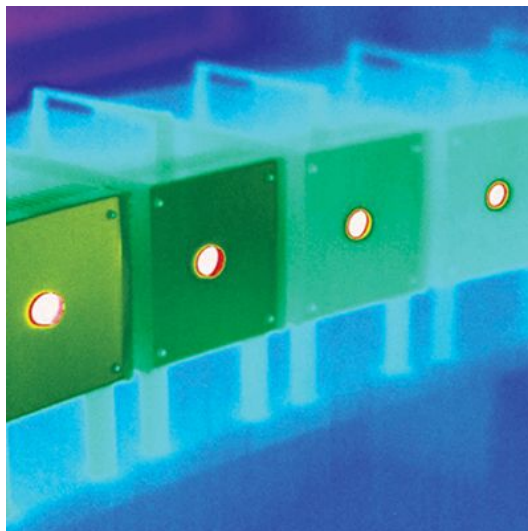
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

For high temperature applications the camera can be calibrated for high temperature ranges.

### Measurement

Optional object temperature range	Up to +1500°C (+2732°F)
-----------------------------------	-------------------------

### Compatibility

Compatible with FLIR products	ThermaCAM P25 to P65, S65, B20 and ThermoVision A40 Series
Compatible with old FLIR products	ThermaCAM S45

### Compatible with the following products

- N/A

## P/N: 1195439

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1195439  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

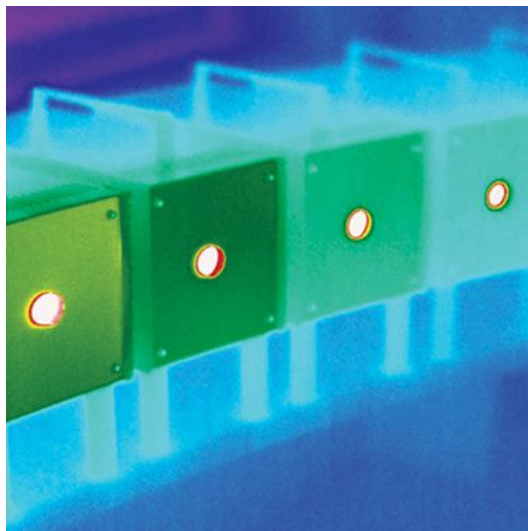
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

For high temperature applications the camera can be calibrated for high temperature ranges.

### Measurement

Optional object temperature range	Up to +2000°C (+3632°F)
-----------------------------------	-------------------------

### Compatibility

Compatible with FLIR products	ThermaCAM P25 to P65, S65, B20 and ThermoVision A40 Series
Compatible with old FLIR products	ThermaCAM S45

### Compatible with the following products

- N/A



## P/N: 1195437

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1195437  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

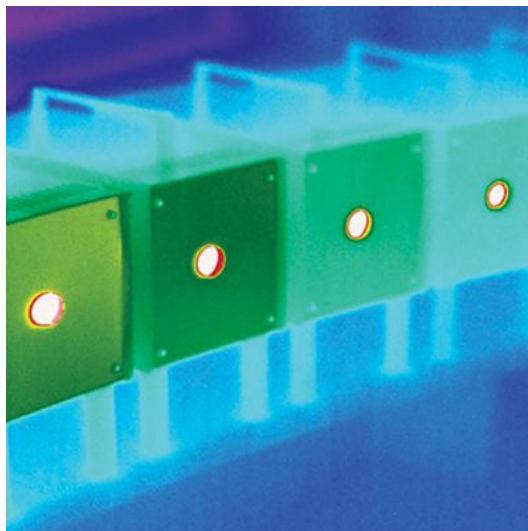
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

For high temperature applications the camera can be calibrated for high temperature ranges.

### Measurement

Optional object temperature range	Up to +1000°C (+1832°F)
-----------------------------------	-------------------------

### Compatibility

Compatible with FLIR products	ThermaCAM P25 to P65, S65, B20 and ThermoVision A40 Series
Compatible with old FLIR products	ThermaCAM S45

### Compatible with the following products

- N/A

**P/N: 1195719**

**Copyright**

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

**Document identity**

Publ. No.: 1195719  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

**Corporate Headquarters**

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

**Website**

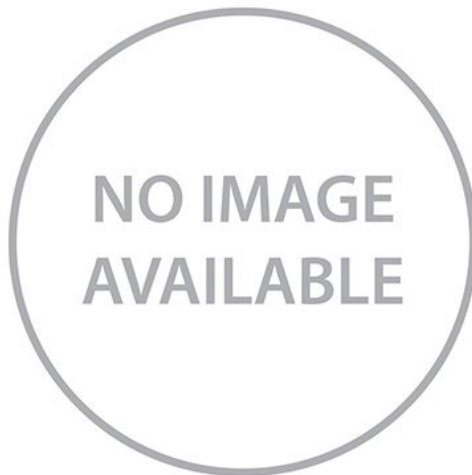
<http://www.flir.com>

**Customer support**

<http://support.flir.com>

**Disclaimer**

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Battery charger, incl, power supply, where xx = US, UK, EU	
Power system	
AC operation	90–264 V, 47–63 Hz
Power	25 W
Shipping information	
List of contents	<ul style="list-style-type: none"><li>• Battery charger</li><li>• Power supply</li></ul>

**Compatible with the following products**

- N/A

## P/N: 1910228

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1910228  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Power supply	
Power system	
AC operation	90–264 VAC, 47/63 Hz, 12 VDC ±5% output to the camera
Power	36 W
Physical data	
Size (L × W × H)	111 × 50 × 32 mm (4.4 × 2.0 × 1.3 in.)
Cable length	1.5 to 2.0 m (4.9 to 6.6 ft.)
Connector	DC cable with 2.5 mm center plug, barrel type
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009321
UPC-12	845188009854
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: T198288

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198288  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
High capacity battery for the IR camera.	
Note: Replaces 1195268 - Battery P/S series	
Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	9-16 VDC (11-16 VDC when charging)
Battery note	Approximate lithium content: 3.0 g
Charging system	In camera (AC adapter) or in battery charger
Physical data	
Battery weight	0.22 kg (0.48 lb.)
Shipping information	
List of contents	<ul style="list-style-type: none"><li>Battery</li><li>Instruction Battery charging</li></ul>
EAN-13	7332558007297
UPC-12	845188007669
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: 1909529

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1909529  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

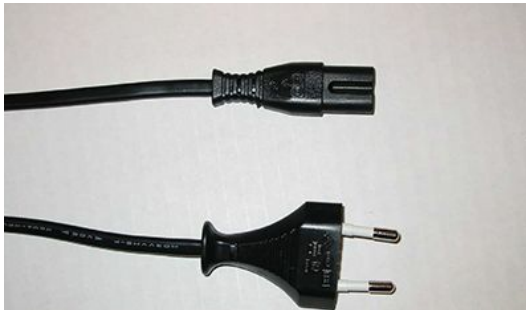
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Power cable for power supply 1910228.

250 VAC, 2.5 A.

2 poles.

Length: 1.5 to 2 m.

### Shipping information

Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009338
UPC-12	845188009861
Country of origin	Sweden

### Compatible with the following products

- N/A

**P/N: 1909530**

**Copyright**

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

**Document identity**

Publ. No.: 1909530  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

**Corporate Headquarters**

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

**Website**

<http://www.flir.com>

**Customer support**

<http://support.flir.com>

**Disclaimer**

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Power cable for Power supply 1910228.	
125 VAC, 7 A.	
2 poles.	
Length 1.5 to 2 m.	
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009345
UPC-12	845188009878
Country of origin	Sweden

**Compatible with the following products**

- N/A

## P/N: 1909531

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1909531  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Power cable for Power supply 1910228.	
250 VAC, 2.5 A.	
2 poles.	
Length 1.5 to 2 m.	
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009352
UPC-12	845188009885
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: 1195314

### Copyright

© 2015, FLIR Systems, Inc.

All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1195314

Commit: 23306

Language: en-US

Modified: 2015-02-23 15:46

Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.

27700 SW Parkway Ave.

Wilsonville, OR 97070

USA

Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This cable is used to connect the infrared camera with a computer, using USB.	
Physical data	
Weight	90 g (3.2 oz.)
Cable length	1.5 m (4.9 ft.)
Connector	Standard USB-A to Lemo 6-pin
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009482
UPC-12	845188010065
Country of origin	Sweden

### Compatible with the following products

- N/A



## P/N: 1195313

### Copyright

© 2015, FLIR Systems, Inc.

All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1195313

Commit: 23306

Language: en-US

Modified: 2015-02-23 15:46

Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.

27700 SW Parkway Ave.

Wilsonville, OR 97070

USA

Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This cable is used to connect the infrared camera with a computer, using serial communication (RS-232).	
Physical data	
Weight	110 g (3.9 oz.)
Cable length	1.5 m (4.9 ft.)
Connector	9-pin D-sub to Lemo 6-pin
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009499
UPC-12	845188010072
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: 1909813

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1909813  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This cable is used to connect the infrared camera with a computer, using FireWire.	
Physical data	
Weight	72 g (2.5 oz.)
Cable length	2.0 m (6.6 ft.)
Connector	FireWire 4-pin to 4-pin
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009505
UPC-12	845188010089
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: 1909812

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1909812  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This cable is used to connect the infrared camera with a computer, using FireWire.	
Physical data	
Weight	33 g (1.2 oz.)
Cable length	2.0 m (6.6 ft.)
Connector	FireWire 4-pin to 6-pin
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009512
UPC-12	845188010096
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: 1909775

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1909775  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This cable is used to transfer video signals from the infrared camera to an external monitor, or to a computer featuring an internal video card.

### Physical data

Weight	76 g (2.7 oz.)
Cable length	2.0 m (6.6 ft.)
Connector	RCA to RCA

### Shipping information

Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009529
UPC-12	845188010102
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: 1195143

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1195143  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This cable is used to power the infrared camera from the cigarette lighter socket in a car.	
Physical data	
Weight	44 g (1.6 oz.)
Cable length	1.5 m (4.9 ft.)
Connector	Cigarette lighter connector to DC jack 2.5 mm
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009543
UPC-12	845188010126
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: 1195495

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1195495  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This cable is an extension cable for the remote control	
Physical data	
Weight	214 g (7.5 oz.)
Cable length	5.0 m (16.4 ft.)
Connector	Lemo 6 pin male to female
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009550
UPC-12	845188010133
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: 1909503

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1909503  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Video lens 12° for the digital camera for P25 to P65, S65 and B20 series.	
Physical data	
Weight	3 g (0.1 oz.)
Size (L × D)	Diameter: 13 mm (0.5 in.)
Shipping information	
List of contents	<ul style="list-style-type: none"><li>• Lens</li><li>• Lens cap</li></ul>
EAN-13	7332558009864
UPC-12	845188010409
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: 194109

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 194109  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Headset for P25 to P65, S65 and B20 series. To be used for voice annotation.	
Physical data	
Weight	43 g (1.5 oz.)
Connector	Lemo
Shipping information	
List of contents	• Headset
EAN-13	7332558009871
UPC-12	845188010416
Country of origin	Sweden

### Compatible with the following products

- N/A



## P/N: 1195694

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1195694  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Camera handle for P25 to P65, S65 and B20 series.	
Physical data	
Weight	94 g (03.3 oz.)
Shipping information	
List of contents	<ul style="list-style-type: none"><li>• Handle</li><li>• Mounting kit</li></ul>
EAN-13	7332558009888
UPC-12	845188010423
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: 1910232

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1910232  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

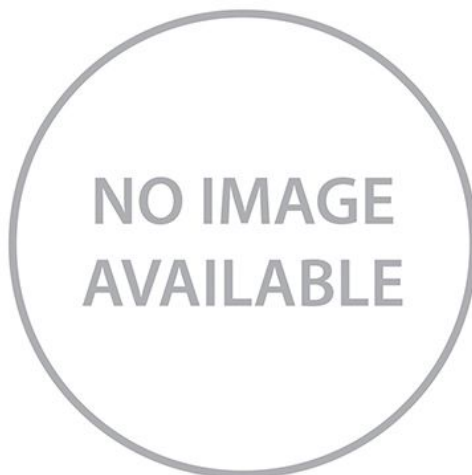
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Rugged, metal protective cap for LEMO connector (headset) for P25 to P65, S65 and B20 series.	
Shipping information	
List of contents	• Protective cap
EAN-13	7332558009895
UPC-12	845188010430
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: 1910233

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1910233  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Rugged, metal protective cap for LEMO connector (USB/RS-232 and RC) for P25 to P65, S65 and B20 series.	
Physical data	
Weight	7 g (0.2 oz.)
Shipping information	
List of contents	• Protective cap
EAN-13	7332558009901
UPC-12	845188010447
Country of origin	Sweden

### Compatible with the following products

- N/A

**P/N: 1195994**

**Copyright**

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

**Document identity**

Publ. No.: 1195994  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

**Corporate Headquarters**

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

**Website**

<http://www.flir.com>

**Customer support**

<http://support.flir.com>

**Disclaimer**

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Video lamp for the digital camera for P25 to P65, S65 and B20 series	
Physical data	
Weight	42 g (1.48 oz.)
Size (L × D)	80 × 23 mm (3.15 × 0.91 in.)
Connector	Lemo
Shipping information	
List of contents	• Video lamp
EAN-13	7332558009918
UPC-12	845188010454
Country of origin	Sweden

**Compatible with the following products**

- N/A

# **Accessories for FLIR SC3000 series (discontinued camera series)**

---

## P/N: 194737

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 194737  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Hard transport case for ThermaCAM™ SC3000	
Shipping information	
List of contents	• Transport case
EAN-13	7332558009598
UPC-12	845188010171
Country of origin	Sweden

### Compatible with the following products

- N/A

**P/N: T198586**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: T198586  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

FLIR Reporter Professional is a powerful software for creating compelling and professional, fully customized, easy-to-interpret maintenance reports.

Professional Report Wizard guides you step-by-step in combining all IR inspection data - infrared and visual images, temperature measurements, and text notes – into a professional, easy-to-interpret maintenance report.

## Key features:

- Flexible report page design and layout for customized reports
- Use quick insert function to easily create custom report pages
- Fully integrated with standard Microsoft Word
- Generates reports in standard MS Office format and PDF-format
- Powerful temperature analysis
- Triple Fusion Picture-in-Picture (movable, sizable, scalable)
- Rapid report manager supporting automatic report generation by drag-and-drop
- Support for MSX (Multi-Spectral Dynamic Imaging) images
- Support for sketch images in both IR and visual with on/off toggling
- Support for same FOV ("Field of View Match")
- Grid settings
- Trending functionality
- Automatic link to Google™ Maps for images with GPS coordinates
- Automatic summary table for the report
- Fine tune images and make full temperature analysis directly in Microsoft Word
- Spell check
- Create your own formulas including measurement values from images
- Play radiometric sequences directly in the report
- Search functionality to quickly finding images for your report
- Panorama tool for combining several images to a larger image
- Support for GF series IR images
- Auto Update function
- Office 2003 (32-bit), Office 2007 (32-bit) and Office 2010 (32-bit)
- Windows 7 (32 and 64-bit), Windows Vista (32 and 64-bit)
- Support for METERLiNK™ data
- \*.docx compatibility

## Download

Download your copy of FLIR Reporter Professional here:

<http://support.flir.com/reporter>

**P/N: T198586**

© 2015, FLIR Systems, Inc.  
#T198586; r. 23306; en-US

Release notes	
Version	9.2
New features	<ul style="list-style-type: none"> <li>— News in 9.2: —</li> <li>Option to hide Zoom Viewer</li> <li>Option to extract Visual image from MSI/Fusion image.</li> <li>Support for the new FLIR Ex and Exx series cameras.</li> <li>Support for multispectral images.</li> <li>Support for auto-oriented images.</li> <li>Various bug fixes.</li> </ul>
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>FLIR Reporter Professional scratchcard</li> </ul>
Packaging, weight	0.135 kg (0.3 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005286 4743254001893 (Estonia plant)
UPC-12	845188005498
Country of origin	Sweden
System requirements	
Operating system	<ul style="list-style-type: none"> <li>Windows XP, 32-bit</li> <li>Windows Vista, 32-bit</li> <li>Windows Vista, 64-bit</li> <li>Windows 7, 32-bit</li> <li>Windows 7, 64-bit</li> </ul>
Software requirements	<ul style="list-style-type: none"> <li>Office 2007 (32-bit)</li> <li>Office 2010 (32-bit)</li> </ul>

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)



**P/N: T198586**

© 2015, FLIR Systems, Inc.  
#T198586; r. 23306; en-US

- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: T198586

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: T198586  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description
FLIR Reporter Professional is a powerful software for creating compelling and professional, fully customized, easy-to-interpret maintenance reports.
Professional Report Wizard guides you step-by-step in combining all IR inspection data - infrared and visual images, temperature measurements, and text notes – into a professional, easy-to-interpret maintenance report.
Key features:
<ul style="list-style-type: none"> <li>• Flexible report page design and layout for customized reports</li> <li>• Use quick insert function to easily create custom report pages</li> <li>• Fully integrated with standard Microsoft Word</li> <li>• Generates reports in standard MS Office format and PDF-format</li> <li>• Powerful temperature analysis</li> <li>• Triple Fusion Picture-in-Picture (movable, sizable, scalable)</li> <li>• Rapid report manager supporting automatic report generation by drag-and-drop</li> <li>• Support for MSX (Multi-Spectral Dynamic Imaging) images</li> <li>• Support for sketch images in both IR and visual with on/off toggling</li> <li>• Support for same FOV ("Field of View Match")</li> <li>• Grid settings</li> <li>• Trending functionality</li> <li>• Automatic link to Google™ Maps for images with GPS coordinates</li> <li>• Automatic summary table for the report</li> <li>• Fine tune images and make full temperature analysis directly in Microsoft Word</li> <li>• Spell check</li> <li>• Create your own formulas including measurement values from images</li> <li>• Play radiometric sequences directly in the report</li> <li>• Search functionality to quickly finding images for your report</li> <li>• Panorama tool for combining several images to a larger image</li> <li>• Support for GF series IR images</li> <li>• Auto Update function</li> <li>• Office 2003 (32-bit), Office 2007 (32-bit) and Office 2010 (32-bit)</li> <li>• Windows 7 (32 and 64-bit), Windows Vista (32 and 64-bit)</li> <li>• Support for METERLiNK™ data</li> <li>• *.docx compatibility</li> </ul>
Download
Download your copy of FLIR Reporter Professional here:
<a href="http://support.flir.com/reporter">http://support.flir.com/reporter</a>

**P/N: T198586**

© 2015, FLIR Systems, Inc.  
#T198586; r. 23306; en-US

Release notes	
Version	9.2
New features	<ul style="list-style-type: none"> <li>— News in 9.2: —</li> <li>Option to hide Zoom Viewer</li> <li>Option to extract Visual image from MSI/Fusion image.</li> <li>Support for the new FLIR Ex and Exx series cameras.</li> <li>Support for multispectral images.</li> <li>Support for auto-oriented images.</li> <li>Various bug fixes.</li> </ul>
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>FLIR Reporter Professional scratchcard</li> </ul>
Packaging, weight	0.135 kg (0.3 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005286 4743254001893 (Estonia plant)
UPC-12	845188005498
Country of origin	Sweden
System requirements	
Operating system	<ul style="list-style-type: none"> <li>Windows XP, 32-bit</li> <li>Windows Vista, 32-bit</li> <li>Windows Vista, 64-bit</li> <li>Windows 7, 32-bit</li> <li>Windows 7, 64-bit</li> </ul>
Software requirements	<ul style="list-style-type: none"> <li>Office 2007 (32-bit)</li> <li>Office 2010 (32-bit)</li> </ul>

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)

**P/N: T198586**

© 2015, FLIR Systems, Inc.  
#T198586; r. 23306; en-US

- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: ITC-ADV-3021

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3021  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This interdisciplinary course bridges the gap between IR thermography, background science and application theory. Being an overview course it deals with three main application fields of thermography: electrical, industrial, and building. For every application the participant will learn about the specific theory, typical faults, and how to detect them with a thermography camera. The student will also learn about the basics of condition monitoring, and maintenance.

Examples and case studies from the real world illustrate the course content and are discussed with the participants. Participants will be trained in discovering and identifying typical faults by typical thermal patterns.

### Content

- Introduction
- Electrical Applications (current, voltage, resistance, electrical systems, Ohm's law, some important properties of materials, typical faults, surveying methodology and criteria, safety, voltage limits)
- Industrial Applications (bearings, pumps, gears, belts, misalignment and couplings, gaskets, seals, rings, glands, steam traps, furnaces)
- Building Applications (definition of the building envelope, steady state thermal transfer in a building envelope, transient thermal transfer in a building envelope, applications)

### Course information

Available languages	
English	
Target group	<ul style="list-style-type: none"> <li>• Professional thermographers holding a Level 1 or a Level 2 certificate and</li> <li>• with interest in increasing their knowledge of different thermographic applications, and their limitations or</li> <li>• with a special interest in condition monitoring of machines</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Knows how to operate the camera</li> <li>• Knows how to report</li> <li>• Works in the industry with e.g. maintenance and condition monitoring or is a consultant</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Valid Level 1 thermography certificate</li> <li>• IR related education and experience</li> </ul>

**P/N: ITC-ADV-3021**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3021; r. 23306; en-US

Course details	
Duration	3 days (24 hours)
Structure	The course is divided into the three parts: Electrical Applications, Industrial Applications, and Building Applications. Theory sessions and case studies including interactive discussions alternate.
Exam	A final exam (30 multiple choice questions) will be written on the 3d day in the afternoon. In connection, the correct answers will be discussed by the instructor and the participants.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Attendance of 1 person</li> <li>• Might include more, such as lunch, depending on location and organizing entity</li> </ul>
Course organization	
ITC	The Advanced General Thermography Course is offered worldwide by ITC as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary.
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Advanced General Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)

**P/N: ITC-ADV-3021**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3021; r. 23306; en-US

- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC

---

**P/N: ITC-ADV-3021**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3021; r. 23306; en-US

- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°



## P/N: ITC-ADV-3029

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3029  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This interdisciplinary course bridges the gap between IR thermography, background science and application theory. Being an overview course it deals with three main application fields of thermography: electrical, industrial, and building. For every application the participant will learn about the specific theory, typical faults, and how to detect them with a thermography camera. The student will also learn about the basics of condition monitoring, and maintenance.

Examples and case studies from the real world illustrate the course content and are discussed with the participants. Participants will be trained in discovering and identifying typical faults by typical thermal patterns.

### Content

- Introduction
- Electrical Applications (current, voltage, resistance, electrical systems, Ohm's law, some important properties of materials, typical faults, surveying methodology and criteria, safety, voltage limits)
- Industrial Applications (bearings, pumps, gears, belts, misalignment and couplings, gaskets, seals, rings, glands, steam traps, furnaces)
- Building Applications (definition of the building envelope, steady state thermal transfer in a building envelope, transient thermal transfer in a building envelope, applications)

### Course information

Available languages	
English	
Target group	
<ul style="list-style-type: none"> <li>• Professional thermographers holding a Level 1 or a Level 2 certificate and</li> <li>• with interest in increasing their knowledge of different thermographic applications, and their limitations or</li> <li>• with a special interest in condition monitoring of machines</li> </ul>	
Typical student	
<ul style="list-style-type: none"> <li>• Knows how to operate the camera</li> <li>• Knows how to report</li> <li>• Works in the industry with e.g. maintenance and condition monitoring or is a consultant</li> </ul>	
Pre-requisites	
<ul style="list-style-type: none"> <li>• Valid Level 1 thermography certificate</li> <li>• IR related education and experience</li> </ul>	

**P/N: ITC-ADV-3029**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3029; r. 23306; en-US

Course details	
Duration	3 days (24 hours)
Structure	The course is divided into the three parts: Electrical Applications, Industrial Applications, and Building Applications. Theory sessions and case studies including interactive discussions alternate.
Exam	A final exam (30 multiple choice questions) will be written on the 3d day in the afternoon. In connection, the correct answers will be discussed by the instructor and the participants.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Attendance of a group up to 10 persons</li> <li>• Might include more, such as lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	The Advanced General Thermography Course is offered worldwide by ITC as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary.
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Advanced General Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)

**P/N: ITC-ADV-3029**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3029; r. 23306; en-US

- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL

---

**P/N: ITC-ADV-3029**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3029; r. 23306; en-US

- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-EXP-1041

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1041  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This is a special day emphasizing on specifications of equipment towards the particularities of applications (for instance triggering or high speed). It addresses mainly the needs of high-end camera users in the scientific or industrial fields.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, French, other languages upon request
Target group	<ul style="list-style-type: none"> <li>Highly specialized users with advanced and scientific applications as well as persons interested in these applications and related infrared equipment.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Researchers</li> <li>Scientists</li> <li>University students</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Basic knowledge about thermography and related parameters.</li> <li>Experience in measurement techniques and general software skills.</li> </ul>
Course details	
Duration	Typically 1 day
Structure	Theory and hands-on, depending on topics
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material</li> <li>Diploma of attendance</li> </ul>
Note	This course is typically organized at the customer's site. Course fee does not include cost for instructor's travelling or lodging. The customer is responsible for providing a suitable classroom and preferably also refreshments/lunch.

**P/N: ITC-EXP-1041**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1041; r. 23306; en-US

Course organization	
ITC	ITC customized workshops are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	ITC customized workshops are lectured by ITC qualified specialists having the relevant expertise in the workshop's subject and the related fields of application.

**Compatible with the following products**

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC

**P/N: ITC-EXP-1041**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1041; r. 23306; en-US

- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

## P/N: ITC-EXP-1050

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1050  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Consultancy can be described as any action or arrangement that is not strictly a training course. Most likely, a thermal camera will be involved. It can be, but is not restricted to:

- Pre-sales equipment or software demonstration over the normal extend
- Equipment and software demonstration and explanation over the normal extend
- Advanced technical support
- Application support
- Comparative study involving a camera, either alone or in conjunction with other instruments
- General measurements in a difficult or unusual situation

### Content

- Customized

### Labs

- Customized

### Course information

Available languages	English, French, other languages upon request
Target group	<ul style="list-style-type: none"> <li>• Advanced users who wish to receive an in-depth guidance to complex problems related to infrared equipment, applications, and measurement questions.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Industry technical personnel</li> <li>• Researchers</li> <li>• Scientists</li> <li>• University students</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic knowledge about thermography and related parameters.</li> <li>• Experience in measurement techniques and general software skills.</li> </ul>

### Course details

Duration	Typically 1 day
Structure	Theory and hands-on, depending on topics



**P/N: ITC-EXP-1050**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1050; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Consultancy by qualified ITC specialist</li> <li>Training and/or reference material</li> </ul>
Note	Consultancy is typically carried out at the customer's site. The fee does not include costs for instructor's travelling or lodging. The customer is responsible for providing access to the equipment or objects that should be analyzed or measured, a suitable meeting room, and preferably also refreshments/lunch.
Course organization	
ITC	ITC consultancy is offered by ITC in EMEA. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	ITC consultancy is delivered by ITC qualified specialists having the relevant expertise in infrared measurement and the related fields of application.

**Compatible with the following products**

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°

**P/N: ITC-EXP-1050**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1050; r. 23306; en-US

- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

## P/N: ITC-EXP-1021

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1021  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

An on-site training can be customized upon your needs. The participants will learn about IR thermography, inspections, measurements, applications, and reporting corresponding to the level needed for performing measurements and inspection in their working environment. The trainer will give useful advice on how to best implement IR thermography in your business.

This partnumber is reserved for adding additional students to an on site class.

### Content

- An on-site course can be any course, from a 1-day introduction to general thermography, over a customized application course to a complete certification course.

### Labs

- Portable classroom labs
- Field training on the site in agreement with the customer

### Course information

Available languages	English, Dutch, German, French, Italian, Spanish, Swedish, other languages upon request
Target group	<ul style="list-style-type: none"> <li>• Employees of a company or certain departments who would like to minimize travel costs and receive the training directly on their daily working site.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>

### Course details

Duration	Customized or according to the kind of course the in-house training is equivalent to.
Structure	Theory, camera handling, demos, practical labs and field training alternate.

**P/N: ITC-EXP-1021**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1021; r. 23306; en-US

Course details	
Exam	Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> </ul>
Course organization	
ITC	ITC In-house courses are offered worldwide by ITC and partners as listed. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	ITC In-house courses are lectured by ITC qualified instructors with experience in the relevant fields of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm

**P/N: ITC-EXP-1021**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1021; r. 23306; en-US

- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°

**P/N: ITC-EXP-1021**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1021; r. 23306; en-US

- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-1029

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1029  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
An on-site training can be customized upon your needs. The participants will learn about IR thermography, inspections, measurements, applications, and reporting corresponding to the level needed for performing measurements and inspection in their working environment. The trainer will give useful advice on how to best implement IR thermography in your business.	
Content	
<ul style="list-style-type: none"> <li>An on-site course can be any course, from a 1-day introduction to general thermography, over a customized application course to a complete certification course.</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Portable classroom labs</li> <li>Field training on the site in agreement with the customer</li> </ul>	
Course information	
Available languages	English, Dutch, German, French, Italian, Spanish, Swedish, other languages upon request
Target group	<ul style="list-style-type: none"> <li>Employees of a company or certain departments who would like to minimize travel costs and receive the training directly on their daily working site.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>
Course details	
Duration	Customized or according to the kind of course the in-house training is equivalent to.
Structure	Theory, camera handling, demos, practical labs and field training alternate.
Exam	Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.

**P/N: ITC-EXP-1029**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1029; r. 23306; en-US

Course details	
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by qualified ITC instructor</li> <li>• Training material in printed format</li> <li>• Diploma of attendance</li> <li>• Attendance of a group up to 10 persons</li> </ul>
Note	Course fee does not include cost for instructor's travelling or lodging. When organized at the customers' site, the customer is responsible for providing a suitable classroom and preferably also refreshments/lunch.
Course organization	
ITC	ITC In-house courses are offered worldwide by ITC and partners as listed. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	ITC In-house courses are lectured by ITC qualified instructors with experience in the relevant fields of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)



**P/N: ITC-EXP-1029**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1029; r. 23306; en-US

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL

**P/N: ITC-EXP-1029**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1029; r. 23306; en-US

- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-CER-5105

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5105  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 1 certified thermographer. The participant will learn about the basics of infrared, how to operate the camera under different conditions and for various purposes, how to do an appropriate judgement of the measurement situation in the field and how to identify potential error sources. After the class, the participant will be able to do IR inspections following written guidelines and to report the result of this inspection.

This partnumber is reserved for adding additional students to a level 1 on site class.

### Content

- Introduction to Thermography
- Camera Operation
- Basic physics of heat
- Basic physics of infrared
- Thermal pattern recognition and IR applications
- IR temperature measurement techniques
- Qualitative and quantitative thermography
- Inspection routines and reporting

### Student presentations

During the seminar, students will generate a small case study based on the lab exercises to be presented to the class.

### Labs

- Camera handling
- Level and Span
- Conduction pattern
- Forced convection
- Direct and indirect thermal measurement
- Thermal capacity
- Steady state and transient heat flow
- Evaporation and condensation
- Electrical application
- Emissivity and Reflected apparent temperature
- Spatial resolution
- Location and temperature measurement of a hot/cold spot
- Image transfer to the computer

**P/N: ITC-CER-5105**

© 2015, FLIR Systems, Inc.

#ITC-CER-5105; r. 23306; en-US

Course information	
Available languages	Chinese, Danish, Dutch, English, Finish, French, German, Greek, Hebrew, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (bra.), Romanian, Russian, Serbo-Croatian, Spanish, Swedish, Thai
Target group	<ul style="list-style-type: none"> <li>• Practical user</li> <li>• This course is designed for beginners in thermography with some experience in camera handling and limited IR knowledge, who want to take their first step to become a professional thermographer and want to qualify as a Level 1 certified thermographer.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>• having already some basic experience with IR thermography,</li> <li>• knowing the basic functions of the camera,</li> <li>• who wants to become a certified thermographer in order to gain a competitive advantage or who needs the certifications because of legal reasons or company internal regulations.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Be familiar with the basic operation of an infrared camera</li> <li>• Have the recommended experience within thermography according to relevant standards</li> </ul>

Course details	
Duration	35 – 40 hours
Structure	Theory and camera practice (hands-on) alternate every day, additional labs and software exercises at some days.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>• Attendance of 1 person</li> <li>• Might include more, such as lunch, depending on location and organizing entity</li> </ul>
Note	Only for non-EURO, non-SEK, non NOK, non- £, -non CHF countries

Course organization	
ITC	The Level 1 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)

**P/N: ITC-CER-5105**

© 2015, FLIR Systems, Inc.

#ITC-CER-5105; r. 23306; en-US

- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc

**P/N: ITC-CER-5105**

© 2015, FLIR Systems, Inc.

#ITC-CER-5105; r. 23306; en-US

- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-CER-5101

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5101  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 1 certified thermographer. The participant will learn about the basics of infrared, how to operate the camera under different conditions and for various purposes, how to do an appropriate judgement of the measurement situation in the field and how to identify potential error sources. After the class, the participant will be able to do IR inspections following written guidelines and to report the result of this inspection.

### Content

- Introduction to Thermography
- Camera Operation
- Basic physics of heat
- Basic physics of infrared
- Thermal pattern recognition and IR applications
- IR temperature measurement techniques
- Qualitative and quantitative thermography
- Inspection routines and reporting

### Student presentations

During the seminar, students will generate a small case study based on the lab exercises to be presented to the class.

### Labs

- Camera handling
- Level and Span
- Conduction pattern
- Forced convection
- Direct and indirect thermal measurement
- Thermal capacity
- Steady state and transient heat flow
- Evaporation and condensation
- Electrical application
- Emissivity and Reflected apparent temperature
- Spatial resolution
- Location and temperature measurement of a hot/cold spot
- Image transfer to the computer

**P/N: ITC-CER-5101**

© 2015, FLIR Systems, Inc.

#ITC-CER-5101; r. 23306; en-US

Course information	
Available languages	Chinese, Danish, Dutch, English, Finish, French, German, Greek, Hebrew, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (bra.), Romanian, Russian, Serbo-Croatian, Spanish, Swedish, Thai
Target group	<ul style="list-style-type: none"> <li>Practical user</li> <li>This course is designed for beginners in thermography with some experience in camera handling and limited IR knowledge, who want to take their first step to become a professional thermographer and want to qualify as a Level 1 certified thermographer.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>having already some basic experience with IR thermography,</li> <li>knowing the basic functions of the camera,</li> <li>who wants to become a certified thermographer in order to gain a competitive advantage or who needs the certifications because of legal reasons or company internal regulations.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Be familiar with the basic operation of an infrared camera</li> <li>Have the recommended experience within thermography according to relevant standards</li> </ul>

Course details	
Duration	35 – 40 hours
Structure	Theory and camera practice (hands-on) alternate every day, additional labs and software exercises at some days.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>Attendance of 1 person</li> <li>Might include more, such as lunch, depending on location and organizing entity</li> </ul>

Course organization	
ITC	The Level 1 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)



**P/N: ITC-CER-5101**

© 2015, FLIR Systems, Inc.

#ITC-CER-5101; r. 23306; en-US

- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)

**P/N: ITC-CER-5101**

© 2015, FLIR Systems, Inc.

#ITC-CER-5101; r. 23306; en-US

- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-CER-5109

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5109  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 1 certified thermographer. The participant will learn about the basics of infrared, how to operate the camera under different conditions and for various purposes, how to do an appropriate judgement of the measurement situation in the field and how to identify potential error sources. After the class, the participant will be able to do IR inspections following written guidelines and to report the result of this inspection.

### Content

- Introduction to Thermography
- Camera Operation
- Basic physics of heat
- Basic physics of infrared
- Thermal pattern recognition and IR applications
- IR temperature measurement techniques
- Qualitative and quantitative thermography
- Inspection routines and reporting

### Student presentations

During the seminar, students will generate a small case study based on the lab exercises to be presented to the class.

### Labs

- Camera handling
- Level and Span
- Conduction pattern
- Forced convection
- Direct and indirect thermal measurement
- Thermal capacity
- Steady state and transient heat flow
- Evaporation and condensation
- Electrical application
- Emissivity and Reflected apparent temperature
- Spatial resolution
- Location and temperature measurement of a hot/cold spot
- Image transfer to the computer

**P/N: ITC-CER-5109**

© 2015, FLIR Systems, Inc.

#ITC-CER-5109; r. 23306; en-US

Course information	
Available languages	Chinese, Danish, Dutch, English, Finish, French, German, Greek, Hebrew, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (bra.), Romanian, Russian, Serbo-Croatian, Spanish, Swedish, Thai
Target group	<ul style="list-style-type: none"> <li>• Practical user</li> <li>• This course is designed for beginners in thermography with some experience in camera handling and limited IR knowledge, who want to take their first step to become a professional thermographer and want to qualify as a Level 1 certified thermographer.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>• having already some basic experience with IR thermography,</li> <li>• knowing the basic functions of the camera,</li> <li>• who wants to become a certified thermographer in order to gain a competitive advantage or who needs the certifications because of legal reasons or company internal regulations.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Be familiar with the basic operation of an infrared camera</li> <li>• Have the recommended experience within thermography according to relevant standards</li> </ul>

Course details	
Duration	35 – 40 hours
Structure	Theory and camera practice (hands-on) alternate every day, additional labs and software exercises at some days.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>• Attendance of a group up to 10 persons</li> <li>• Might include more, such as lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>

Course organization	
ITC	The Level 1 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)

**P/N: ITC-CER-5109**

© 2015, FLIR Systems, Inc.

#ITC-CER-5109; r. 23306; en-US

- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310

**P/N: ITC-CER-5109**

© 2015, FLIR Systems, Inc.

#ITC-CER-5109; r. 23306; en-US

- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-CER-5205

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5205  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 2 certified thermographer. The participant will learn about topics in infrared thermography to increase the knowledge about infrared physics, heat science, infrared measurement equipment and its application. As a Level 2 thermographer the participant shall provide guidance to category 1 personnel in the areas of equipment selection, techniques, limitations, data analysis, corrective actions and reporting.

This partnumber is reserved for adding additional students to a level 2 on site class.

### Content

- Thermal science
- Heat transfer
- Temperature measurement
- Infrared science
- IR equipment and applications

### Student presentations

During the seminar, students shall present a prepared case study to the class. The maximum duration (excl. discussion) should be 7 minutes and the maximum number of 7 slides should not be exceeded.

### Labs (Note: Labs marked "(M)" are mandatory)

- Newton's law (class lab) (M)
- Advanced emissivity measurement (M)
- Variation of emissivity with the angle (M)
- Transient thermal transfer
- Indirect power measurement (M)
- IR-window transmission (M)
- Slit Response Function
- Hole Response Function (M)
- Parallel circuits

### Course information

Available languages	Dutch, English, German, French, Italian, Portuguese (bra.), Spanish, Swedish
Target group	<ul style="list-style-type: none"> <li>• Professional user</li> <li>• This course is designed for thermographers holding a Level 1 certificate, who want to increase their knowledge about IR thermography and who want to qualify as a Level 2 certified thermographer.</li> </ul>

**P/N: ITC-CER-5205**

© 2015, FLIR Systems, Inc.

#ITC-CER-5205; r. 23306; en-US

Course information	
Typical student	<ul style="list-style-type: none"> <li>A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>having several months of professional experience within thermography,</li> <li>versed in camera operation and reporting,</li> <li>holding a Level 1 certificate,</li> <li>who needs the Level 2 Certification for guidance and supervision of other thermographers or is interested in deeper understanding of IR thermography.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Valid Level 1 thermography certificate,</li> <li>Recommended experience within thermography according to relevant standards,</li> <li>Prepared case study to be presented at the Level 2 course and submitted towards qualification at course closing.</li> </ul>
Course details	
Duration	40 hours
Structure	Theory, camera practice (hands-on), and prepared case studies alternate every day.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>Attendance of 1 person</li> <li>Might include more, such as lunch, depending on location and organizing entity.</li> </ul>
Note	Only for non-EURO, non-SEK, non NOK, non- £, -non CHF countries
Course organization	
ITC	The Level 2 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in T560393 Courses offered by ITC partners. Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)



**P/N: ITC-CER-5205**

© 2015, FLIR Systems, Inc.

#ITC-CER-5205; r. 23306; en-US

- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°

**P/N: ITC-CER-5205**

© 2015, FLIR Systems, Inc.

#ITC-CER-5205; r. 23306; en-US

- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-CER-5201

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5201  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 2 certified thermographer. The participant will learn about topics in infrared thermography to increase the knowledge about infrared physics, heat science, infrared measurement equipment and its application. As a Level 2 thermographer the participant shall provide guidance to category 1 personnel in the areas of equipment selection, techniques, limitations, data analysis, corrective actions and reporting.

#### Content

- Thermal science
- Heat transfer
- Temperature measurement
- Infrared science
- IR equipment and applications

#### Student presentations

During the seminar, students shall present a prepared case study to the class. The maximum duration (excl. discussion) should be 7 minutes and the maximum number of 7 slides should not be exceeded.

#### Labs (Note: Labs marked "(M)" are mandatory)

- Newton's law (class lab) (M)
- Advanced emissivity measurement (M)
- Variation of emissivity with the angle (M)
- Transient thermal transfer
- Indirect power measurement (M)
- IR-window transmission (M)
- Slit Response Function
- Hole Response Function (M)
- Parallel circuits

### Course information

#### Available languages

Dutch, English, German, French, Italian, Portuguese (bra.), Spanish, Swedish

#### Target group

- Professional user
- This course is designed for thermographers holding a Level 1 certificate, who want to increase their knowledge about IR thermography and who want to qualify as a Level 2 certified thermographer.

**P/N: ITC-CER-5201**

© 2015, FLIR Systems, Inc.

#ITC-CER-5201; r. 23306; en-US

Course information	
Typical student	<ul style="list-style-type: none"> <li>A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>having several months of professional experience within thermography,</li> <li>versed in camera operation and reporting,</li> <li>holding a Level 1 certificate,</li> <li>who needs the Level 2 Certification for guidance and supervision of other thermographers or is interested in deeper understanding of IR thermography.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Valid Level 1 thermography certificate,</li> <li>Recommended experience within thermography according to relevant standards,</li> <li>Prepared case study to be presented at the Level 2 course and submitted towards qualification at course closing.</li> </ul>
Course details	
Duration	40 hours
Structure	Theory, camera practice (hands-on), and prepared case studies alternate every day.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>Attendance of 1 person</li> <li>Might include more, such as lunch, depending on location and organizing entity.</li> </ul>
Course organization	
ITC	The Level 2 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in T560393 Courses offered by ITC partners. Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)

**P/N: ITC-CER-5201**

© 2015, FLIR Systems, Inc.

#ITC-CER-5201; r. 23306; en-US

- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°

**P/N: ITC-CER-5201**

© 2015, FLIR Systems, Inc.

#ITC-CER-5201; r. 23306; en-US

- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-CER-5209

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5209  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 2 certified thermographer. The participant will learn about topics in infrared thermography to increase the knowledge about infrared physics, heat science, infrared measurement equipment and its application. As a Level 2 thermographer the participant shall provide guidance to category 1 personnel in the areas of equipment selection, techniques, limitations, data analysis, corrective actions and reporting.

### Content

- Thermal science
- Heat transfer
- Temperature measurement
- Infrared science
- IR equipment and applications

### Student presentations

During the seminar, students shall present a prepared case study to the class. The maximum duration (excl. discussion) should be 7 minutes and the maximum number of 7 slides should not be exceeded.

### Labs (Note: Labs marked "(M)" are mandatory)

- Newton's law (class lab) (M)
- Advanced emissivity measurement (M)
- Variation of emissivity with the angle (M)
- Transient thermal transfer
- Indirect power measurement (M)
- IR-window transmission (M)
- Slit Response Function
- Hole Response Function (M)
- Parallel circuits

### Course information

#### Available languages

Dutch, English, German, French, Italian, Portuguese (bra.), Spanish, Swedish

#### Target group

- Professional user
- This course is designed for thermographers holding a Level 1 certificate, who want to increase their knowledge about IR thermography and who want to qualify as a Level 2 certified thermographer.

**P/N: ITC-CER-5209**

© 2015, FLIR Systems, Inc.

#ITC-CER-5209; r. 23306; en-US

Course information	
Typical student	<ul style="list-style-type: none"> <li>A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>having several months of professional experience within thermography,</li> <li>versed in camera operation and reporting,</li> <li>holding a Level 1 certificate,</li> <li>who needs the Level 2 Certification for guidance and supervision of other thermographers or is interested in deeper understanding of IR thermography.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Valid Level 1 thermography certificate,</li> <li>Recommended experience within thermography according to relevant standards,</li> <li>Prepared case study to be presented at the Level 2 course and submitted towards qualification at course closing.</li> </ul>
Course details	
Duration	40 hours
Structure	Theory, camera practice (hands-on), and prepared case studies alternate every day.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as lunch, instructor's travel expenses, etc. depending on location and organizing entity.</li> </ul>
Course organization	
ITC	The Level 2 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in T560393 Courses offered by ITC partners. Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)



**P/N: ITC-CER-5209**

© 2015, FLIR Systems, Inc.

#ITC-CER-5209; r. 23306; en-US

- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°

**P/N: ITC-CER-5209**

© 2015, FLIR Systems, Inc.

#ITC-CER-5209; r. 23306; en-US

- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-SOW-0001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-SOW-0001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

These courses are for users of FLIR software like FLIR Reporter Professional or FLIR ResearchIR. Please observe that content and labs depend on the software used.

#### Content

- System requirements
- Configuration
- Analyzing functions
- Templates
- Reporting functions
- Data exchange

#### Labs

- System set up
- Data import
- Data analysis
- Creating templates
- Creating reports
- Exporting data
- Triggering

### Course information

Available languages	English, French, German, other languages upon request
Target group	<ul style="list-style-type: none"> <li>• Persons interested in, or users, of the specific software.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Consultants interested in reporting</li> <li>• Building inspectors with reporting needs</li> <li>• R&amp;D staff interested in advanced data analysis</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Laptop with installed software full version or 30 day demo (download on <a href="http://www.flir.com">www.flir.com</a>)</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic knowledge about thermography and related parameters.</li> </ul>

### Course details

Duration	Depends on software.
Structure	Short system introduction, then demos and practical exercises.

**P/N: ITC-SOW-0001**

© 2015, FLIR Systems, Inc.  
#ITC-SOW-0001; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>
Course organization	
ITC	Software courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Software courses are lectured by ITC qualified instructors experienced in usage of the software being subject of the class.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)

**P/N: ITC-SOW-0001**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0001; r. 23306; en-US

- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°

**P/N: ITC-SOW-0001**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0001; r. 23306; en-US

- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-SOW-0009

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-SOW-0009  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
These courses are for users of FLIR software like FLIR Reporter Professional or FLIR ResearchIR. Please observe that content and labs depend on the software used.	
Content	
<ul style="list-style-type: none"> <li>System requirements</li> <li>Configuration</li> <li>Analyzing functions</li> <li>Templates</li> <li>Reporting functions</li> <li>Data exchange</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>System set up</li> <li>Data import</li> <li>Data analysis</li> <li>Creating templates</li> <li>Creating reports</li> <li>Exporting data</li> <li>Triggering</li> </ul>	
Course information	
Available languages	English, French, German, other languages upon request
Target group	<ul style="list-style-type: none"> <li>Persons interested in, or users, of the specific software.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Consultants interested in reporting</li> <li>Building inspectors with reporting needs</li> <li>R&amp;D staff interested in advanced data analysis</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Laptop with installed software full version or 30 day demo (download on <a href="http://www.flir.com">www.flir.com</a>)</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Basic knowledge about thermography and related parameters.</li> </ul>
Course details	
Duration	Depends on software.
Structure	Short system introduction, then demos and practical exercises.

**P/N: ITC-SOW-0009**

© 2015, FLIR Systems, Inc.  
#ITC-SOW-0009; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	Software courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Software courses are lectured by ITC qualified instructors experienced in usage of the software being subject of the class.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm



**P/N: ITC-SOW-0009**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0009; r. 23306; en-US

- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°

**P/N: ITC-SOW-0009**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0009; r. 23306; en-US

- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: 194176

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 194176  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The lens is a popular lens accessory and provides approximately 2× magnification compared to the standard lens. Ideal for small or distant targets such as overhead power lines.

### Imaging and optical data

Field of view (FOV)	11.7° × 8.78°/9.65° × 7.24°
Minimum focus distance	1.2 m (3.93 ft.)
Focal length	71.5 mm (28.1 in.)
Spatial resolution (IFOV)	0.64 mrad/0.53 mrad
F-number	1.0
Lens note	When two pieces of data are separated by “/” the first piece of data is for cameras with a serial number starting with 218, 234, 236 or 250 and the second piece of data is for cameras with a serial number starting with 253

### Shipping information

List of contents	<ul style="list-style-type: none"> <li>• Lens</li> <li>• Lens case</li> </ul>
EAN-13	7332558005835
UPC-12	845188006044
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: 1194981

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1194981  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This optic provides 8x magnification compared to the built-in 20° lens and is ideally suited for target signature analysis and other scientific applications.	
Imaging and optical data	
Minimum focus distance	45 m (147.54 ft.)
F-number	2.0
Physical data	
Weight	2.14 kg; 4.71 lbs. (lens excl. case & lens cap)
Size (L × D)	326 × 168 mm (12.85 × 6.61 in.)
Shipping information	
List of contents	<ul style="list-style-type: none"> <li>• Lens</li> <li>• Mounting kit</li> </ul>

### Compatible with the following products

- N/A

## P/N: 1194982

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1194982  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This optic provides 4x magnification compared to the built-in 20° lens and is ideally suited for target signature analysis and other scientific applications.

### Imaging and optical data

Minimum focus distance	10 m (32.79 ft.)
Focal length	142.1 mm (5.6 in.)
F-number	2.0

### Physical data

Weight	1.00 kg; 2.20 lbs. (lens excl. case & lens cap)
--------	---

### Shipping information

List of contents	<ul style="list-style-type: none"> <li>• Lens</li> <li>• Mounting kit</li> </ul>
EAN-13	7332558009154
UPC-12	845188009694
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: 1195022

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1195022  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This wide angle lens has a field of view three times that of the standard 20° lens. This lens is suitable for extremely cramped conditions, where the operator can not step farther back from the object.

### Imaging and optical data

Minimum focus distance	0.1 m (0.33 ft.)
Spatial resolution (IFOV)	3.28 mrad
F-number	2.0

### Physical data

Weight	0.38 kg; 0.84 lbs. (lens excl. case & lens cap)
Size (L × D)	87 × 69 mm (3.43 × 2.72 in.)

### Shipping information

List of contents	<ul style="list-style-type: none"><li>• Lens</li><li>• Lens case</li></ul>
EAN-13	7332558009161
UPC-12	845188009700
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: 1194958

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1194958  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This close-up optic attaches to the standard 20° lens and provides resolution of targets as small as 106 µm. Ideal for integrated circuit inspection applications.

### Imaging and optical data

Field of view (FOV)	34 mm × 25.5 mm (1.34 in. × 1.00 in.)
Minimum focus distance	75 mm (2.96 in.)
Working distance	99 mm (3.9 in.)
Depth of field	±0.5 mm (±0.020 in.)
Spatial resolution (IFOV)	107 µm

### Shipping information

List of contents	<ul style="list-style-type: none"><li>• Lens</li><li>• Lens case</li></ul>
EAN-13	7332558009178
UPC-12	845188009717
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: 1194962

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1194962  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This microscope lens attaches to the standard 20° lens and provides resolutions as low as 31 µm. The front part of the microscope lens can be removed, and will then be identical to Part Number 1 194 958.

### Imaging and optical data

Field of view (FOV)	9.9 mm × 7.5 mm (0.39 in. × 0.30 in.)
Minimum focus distance	24 mm (0.95 in.)
Working distance	26 mm (1.02 in.)
Depth of field	±0.05 mm (0.002 in.)
Spatial resolution (IFOV)	31 µm

### Shipping information

List of contents	<ul style="list-style-type: none"><li>• Lens</li><li>• Lens case</li></ul>
EAN-13	7332558009185
UPC-12	845188009724
Country of origin	Sweden

### Compatible with the following products

- N/A



## P/N: 1199709

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1199709  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

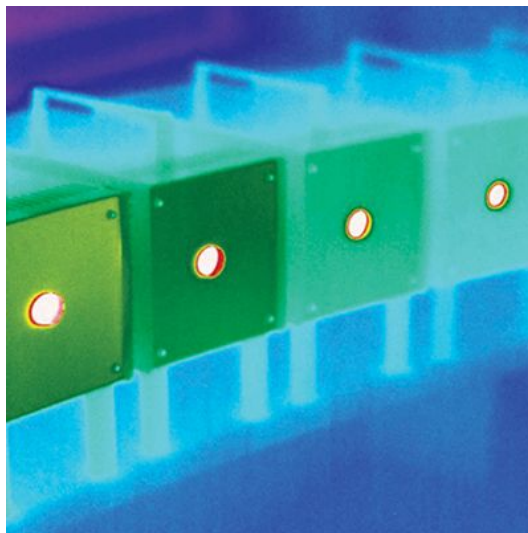
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

For high temperature applications the camera can be calibrated for high temperature ranges.

### Measurement

Optional object temperature range	Up to +2000°C (+3632°F)
-----------------------------------	-------------------------

### Compatibility

Compatible with FLIR products	ThermaCAM SC3000 Series
-------------------------------	-------------------------

### Compatible with the following products

- N/A

## P/N: 194713

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 194713  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
PC-Card for image storage.	
Data communication interfaces	
Memory card, size	> 100 MB
Physical data	
Size (L × W × H)	86 × 54 × 4 mm (3.4 × 2.1 × 0.2 in.)
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009390
UPC-12	845188009922
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: 1909820

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1909820  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
PC-Card adapter to be able to use the CompactFlash card in a standard PC-Card reader.	
Physical data	
Weight	40 g (1.41 oz.)
Size (L × W × H)	86 × 54 × 4 mm (3.4 × 2.1 × 0.2 in.)
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009406
UPC-12	845188009939
Country of origin	Sweden

### Compatible with the following products

- N/A

**P/N: 1199710**

**Copyright**

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

**Document identity**

Publ. No.: 1199710  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

**Corporate Headquarters**

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

**Website**

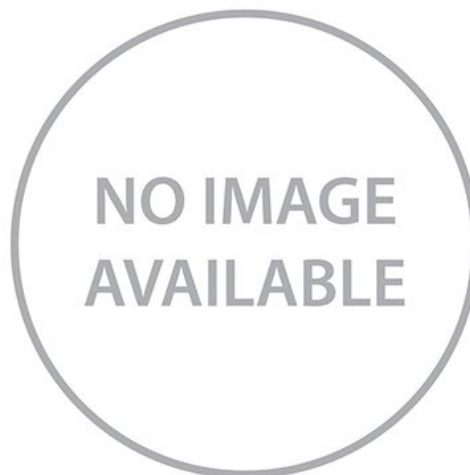
<http://www.flir.com>

**Customer support**

<http://support.flir.com>

**Disclaimer**

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
High speed option for ThermaCAM™ SC3000 Series	
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009956
UPC-12	845188010492
Country of origin	Sweden

**Compatible with the following products**

- N/A

## P/N: 1194983

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1194983  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

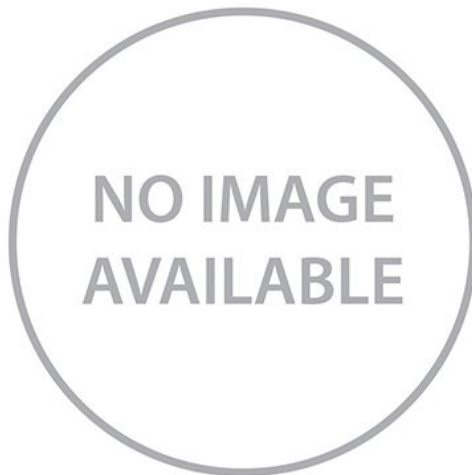
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Camera handle for ThermaCAM™ SC3000 Series	
Shipping information	
List of contents	• Camera handle
EAN-13	7332558009963
UPC-12	845188010508
Country of origin	Sweden

### Compatible with the following products

- N/A

# Accessories for FLIR A20 series (discontinued camera series)

---

## P/N: 1909921

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1909921  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This cable is used to connect the infrared camera with a computer, using Ethernet.	
Physical data	
Weight	75 g (2.6 oz.)
Cable length	2.0 m (6.6 ft.)
Connector	RJ-45 to RJ-45
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009413
UPC-12	845188009991
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: 1909954

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1909954  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This cable is used to connect the infrared camera with a computer, using FireWire.	
Physical data	
Weight	130 g (4.6 oz.)
Cable length	2.0 m (6.6 ft.)
Connector	FireWire 6-pin to 6-pin
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009420
UPC-12	845188010003
Country of origin	Sweden

### Compatible with the following products

- N/A



## P/N: 908618

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 908618  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This cable is used to connect the infrared camera with a computer, using serial communication (RS-232).	
Physical data	
Weight	180 g (6.3 oz.)
Cable length	1.5 m (4.9 ft.)
Connector	9-pin D-sub male to female
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009437
UPC-12	845188010010
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: 908929

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 908929  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This cable is used to transfer video signals from the infrared camera to an external monitor, or to a computer featuring an internal video card.

### Physical data

Weight	163 g (5.7 oz.)
Cable length	3.0 m (9.8 ft.)
Connector	BNC

### Shipping information

Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009444
UPC-12	845188010027
Country of origin	Sweden

### Compatible with the following products

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°

## P/N: 1910015

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1910015  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This cable is used to connect the infrared camera to Ethernet.

### Physical data

Cable length	2.0 m (6.6 ft.)
Connector	RJ-45 to RJ-45
Cable type	CAT-5

### Shipping information

Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009451
UPC-12	845188010034
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: 1910016

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1910016  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This crossover cable is used to connect the infrared camera to Ethernet.	
Physical data	
Weight	80 g (2.8 oz.)
Cable length	2.0 m (6.6 ft.)
Connector	RJ-45 to RJ-45
Cable type	CAT-5
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009468
UPC-12	845188010041
Country of origin	Sweden

### Compatible with the following products

- N/A

**P/N: 1195642**

**Copyright**

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

**Document identity**

Publ. No.: 1195642  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

**Corporate Headquarters**

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

**Website**

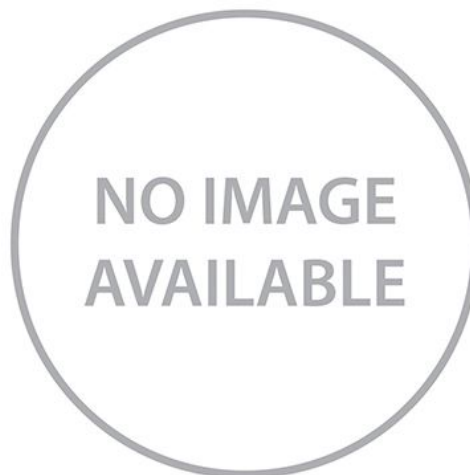
<http://www.flir.com>

**Customer support**

<http://support.flir.com>

**Disclaimer**

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Hard transport case for ThermoVision™ A20 Series	
Shipping information	
List of contents	• Transport case
EAN-13	7332558009604
UPC-12	845188010188
Country of origin	Sweden

**Compatible with the following products**

- N/A

## P/N: DSW-10000

### Copyright

© 2015, FLIR Systems, Inc.

All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: DSW-10000

Commit: 24597

Language: en-US

Modified: 2015-04-09 13:38

Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.

27700 SW Parkway Ave.

Wilsonville, OR 97070

USA

Telephone: +1-503-498-3547

### Website

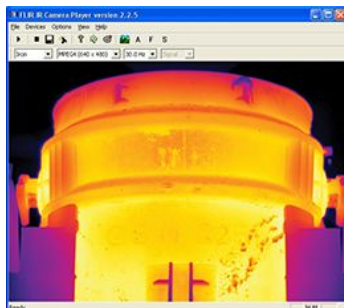
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

FLIR IR Camera Player is a PC-based remote control and viewer that you can use with cameras from FLIR Systems.

You can perform one or more of the following with FLIR IR Camera Player:

- Record a video stream from the camera.
- Save a frame from the video stream as a snapshot image (\*.bmp).
- Autofocus, focus far, and focus near.
- Autoadjust the camera image.
- Freeze the camera image.
- Save a camera image in the camera.
- Change Color palette.
- Add an image description and a text comment to an image.

You connect a camera in one of the following ways:

- Ethernet
- FireWire
- USB

### Download

This software is a freeware. To download, click the following link:

<http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=89>

### Release notes

Version	2.3.3
New features	<p>Main improvements in version 2.3.3:</p> <ul style="list-style-type: none"> <li>• Added latest device drivers (1.9.1.0).</li> <li>• Various bugfixes</li> </ul> <p>Main improvements in version 2.2.7:</p> <ul style="list-style-type: none"> <li>• Added support for FLIR Ax5 series.</li> </ul>

### System requirements

Operating system	<ul style="list-style-type: none"> <li>• Windows XP, 32-bit</li> <li>• Windows Vista, 32-bit/64-bit</li> <li>• Windows 7, 32-bit/64-bit</li> </ul>
------------------	--

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)

**P/N: DSW-10000**

© 2015, FLIR Systems, Inc.  
#DSW-10000; r. 24597; en-US

- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc

**P/N: DSW-10000**

© 2015, FLIR Systems, Inc.  
#DSW-10000; r. 24597; en-US

- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)





---

**P/N: DSW-10000**

© 2015, FLIR Systems, Inc.  
#DSW-10000; r. 24597; en-US

- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

**P/N: T198696**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: T198696  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

FLIR ResearchIR Max 4.0 is aimed at R&D and science professionals who use thermal imaging cameras with a cooled or uncooled detectors. FLIR ResearchIR Max makes the most of a thermal imaging camera, and allows high-speed recording and advanced thermal pattern analysis. FLIR ResearchIR Max is the perfect tool for industrial R&D.

### Main features:

- Pre/post-recording.
- Mathematical processing toolbox.
- Image filtering toolbox.
- Radiometric digital detail enhancement (DDE) improves dramatically the understanding of the thermal image, while maintaining radiometric measurement accuracy.
- View, record and store images at high speed.
- Post-processing of fast thermal events.
- Generate time-temperature plots from live images or recorded sequences.
- Advanced start/stop recording conditions.
- Unlimited number of analysis functions (spot, line, area).
- File organizer.
- Zoom and pan allows a closer look.
- Multiple dockable objects for plots and statistics.
- Export images and results to bitmap, video, Excel, MATLAB or CSV formats
- Local scale gain control on measurement - automatically adjusts the contrast in a specific part of the image.

FLIR ResearchIR Max 4 in combination with a FLIR thermal imaging camera is the perfect solution for any R&D or scientific application. It will allow researchers in all fields to make the smallest of temperature differences visible and to thoroughly analyze the thermal process in real-time.

## Download

Download your copy of FLIR ResearchIR Max 4 here (hardware security device required to run the software):

<http://support.flir.com/rir4>

## Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• FLIR ResearchIR Max 4 download card.</li> <li>• Hardware security device.</li> </ul>
Packaging, weight	0.066 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558007266
UPC-12	845188007638
Country of origin	Sweden

## Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)

**P/N: T198696**

© 2015, FLIR Systems, Inc.  
#T198696; r. 24597; en-US

- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 42901-1001; FLIR A305sc
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens

**P/N: T198696**

© 2015, FLIR Systems, Inc.  
#T198696; r. 24597; en-US

- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

**P/N: T198697**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: T198697  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
FLIR ResearchIR Max + HSDR 4 contains all the features of FLIR ResearchIR Max 4, plus support for FLIR High Speed Data Recorder (HSDR) products.	
Main features:	
<ul style="list-style-type: none"> <li>• Pre/post-recording.</li> <li>• Mathematical processing toolbox.</li> <li>• Image filtering toolbox.</li> <li>• Radiometric digital detail enhancement (DDE) improves dramatically the understanding of the thermal image, while maintaining radiometric measurement accuracy.</li> <li>• View, record and store images at high speed.</li> <li>• Post-processing of fast thermal events.</li> <li>• Generate time-temperature plots from live images or recorded sequences.</li> <li>• Advanced start/stop recording conditions.</li> <li>• Unlimited number of analysis functions (spot, line, area).</li> <li>• File organizer.</li> <li>• Zoom and pan allows a closer look.</li> <li>• Multiple dockable objects for plots and statistics.</li> <li>• Export images and results to bitmap, video, Excel, MATLAB or CSV formats</li> <li>• Local scale gain control on measurement - automatically adjusts the contrast in a specific part of the image.</li> </ul>	
FLIR ResearchIR Max + HSDR 4 in combination with a FLIR thermal imaging camera is the perfect solution for any R&D or scientific application. It will allow researchers in all fields to make the smallest of temperature differences visible and to thoroughly analyze the thermal process in real-time.	
Download	
Download your copy of FLIR ResearchIR Max + HSDR 4 here (hardware security device required to run the software):	
<a href="http://support.flir.com/rir4">http://support.flir.com/rir4</a>	
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• FLIR ResearchIR Max + HSDR 4 download card.</li> <li>• Hardware security device.</li> </ul>
Packaging, weight	0.068 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558007280
UPC-12	845188007652
Country of origin	Sweden

## Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)

**P/N: T198697**

© 2015, FLIR Systems, Inc.  
#T198697; r. 24597; en-US

- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 42901-1001; FLIR A305sc
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens

**P/N: T198697**

© 2015, FLIR Systems, Inc.  
#T198697; r. 24597; en-US

- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: 1195269

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1195269  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Imaging and optical data	
Field of view (FOV)	11.7° × 8.78°/8.89° × 6.67°
Minimum focus distance	0.7 m (2.3 ft.)
Focal length	36 mm (1.4 in.)
Spatial resolution (IFOV)	1.28 mrad/0.97 mrad
F-number	1.2
Lens note	When two pieces of data are separated by “/” the first piece of data is for cameras with a serial number starting with 227 and the second piece of data is for cameras with a serial number starting with 249
Shipping information	
List of contents	• Lens

### Compatible with the following products

- N/A



## P/N: 1195270

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1195270  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Imaging and optical data	
Field of view (FOV)	43.8° × 32.85°/33.8° × 25.35°
Minimum focus distance	0.01 m (0.03 ft.)
Focal length	9.2 mm (0.36 in.)
Spatial resolution (IFOV)	5.03 mrad/3.8 mrad
F-number	1.2
Lens note	When two pieces of data are separated by “/” the first piece of data is for cameras with a serial number starting with 227 and the second piece of data is for cameras with a serial number starting with 249
Shipping information	
List of contents	• Lens

### Compatible with the following products

- N/A

## P/N: 1195027

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1195027  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Imaging and optical data	
Field of view (FOV)	24.5° × 19.05°/18.7° × 14.03°
Minimum focus distance	0.3 m (0.98 ft.)
Focal length	17 mm (0.67 in.)
Spatial resolution (IFOV)	2.72 mrad/2.06 mrad
F-number	1.2
Lens note	When two pieces of data are separated by “/” the first piece of data is for cameras with a serial number starting with 227 and the second piece of data is for cameras with a serial number starting with 249

### Compatible with the following products

- N/A

## P/N: 1196017

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1196017  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

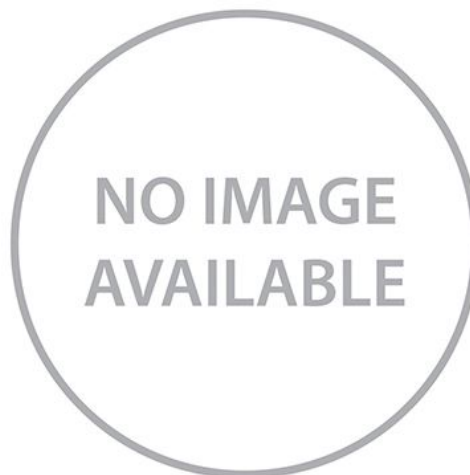
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Imaging and optical data	
Field of view (FOV)	8° × 6°/6° × 4.5°
Minimum focus distance	3 m (9.8 ft.)
Focal length	54 mm
Spatial resolution (IFOV)	0.44 mrad/0.33 mrad
F-number	1.2
Lens note	When two pieces of data are separated by “/” the first piece of data is for cameras with a serial number starting with 227 and the second piece of data is for cameras with a serial number starting with 249
Shipping information	
List of contents	<ul style="list-style-type: none"><li>• Lens</li><li>• Lens case</li></ul>

### Compatible with the following products

- N/A

## P/N: 1196019

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1196019  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

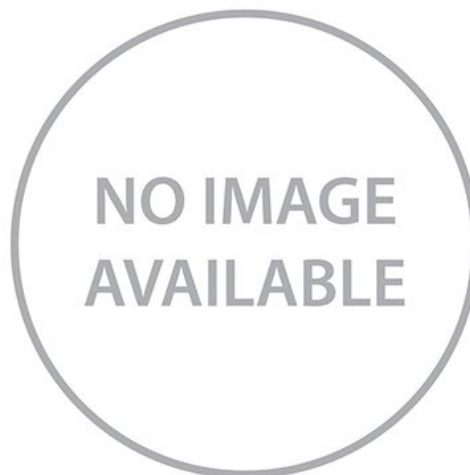
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Imaging and optical data	
Field of view (FOV)	4.87° × 3.65°/3.68° × 2.76°
Focal length	87 mm (3.4 in.)
Spatial resolution (IFOV)	0.53 mrad/0.40 mrad
F-number	1.2
Lens note	When two pieces of data are separated by “/” the first piece of data is for cameras with a serial number starting with 227 and the second piece of data is for cameras with a serial number starting with 249
Shipping information	
List of contents	<ul style="list-style-type: none"><li>• Lens</li><li>• Lens case</li></ul>

### Compatible with the following products

- N/A

## P/N: 1122060

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1122060  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Spring for IR lens f = 9.2 mm	
Physical data	
Weight	3 g (0.1 oz.)
Material	Metal
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009208
UPC-12	845188009748
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: 1122048

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1122048  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Spring for IR lens f = 17 mm	
Physical data	
Weight	2 g (0.1 oz.)
Material	Metal
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009215
UPC-12	845188009755
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: 1196007

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1196007  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Motor focus for IR lens f = 36 mm, 9.2 mm and 17 mm	
Physical data	
Weight	191 g (6.7 oz.)
Material	Metal and plastic
Shipping information	
List of contents	<ul style="list-style-type: none"><li>• Motor focus</li><li>• Mounting kit</li></ul>
EAN-13	7332558009222
UPC-12	845188009762
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: 1195981

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1195981  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Imaging and optical data	
Field of view (FOV)	8° × 6°/6° × 4.5°
Minimum focus distance	3 m (9.8 ft.)
Focal length	54 mm (2.1 in.)
Spatial resolution (IFOV)	0.44 mrad/0.33 mrad
F-number	1.2
Lens note	When two pieces of data are separated by “/” the first piece of data is for cameras with a serial number starting with 227 and the second piece of data is for cameras with a serial number starting with 249
Shipping information	
List of contents	<ul style="list-style-type: none"><li>• Lens</li><li>• Lens case</li></ul>

### Compatible with the following products

- N/A



## P/N: 1195982

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1195982  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Imaging and optical data	
Field of view (FOV)	80° × 60°/60° × 45°
Minimum focus distance	0.01 m (0.03 ft.)
Focal length	4.5 mm (0.18 in.)
Spatial resolution (IFOV)	7.75 mrad/5.8 mrad
F-number	1.2
Lens note	When two pieces of data are separated by “/” the first piece of data is for cameras with a serial number starting with 227 and the second piece of data is for cameras with a serial number starting with 249
Shipping information	
List of contents	<ul style="list-style-type: none"><li>• Lens</li><li>• Lens case</li></ul>

### Compatible with the following products

- N/A

## P/N: 1196018

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1196018  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



Imaging and optical data	
Field of view (FOV)	$80^\circ \times 60^\circ/60^\circ \times 45^\circ$
Minimum focus distance	0.01 m (0.03 ft.)
Focal length	4.5 mm (0.18 in.)
Spatial resolution (IFOV)	7.75 mrad/5.8 mrad
F-number	1.2
Lens note	When two pieces of data are separated by “/” the first piece of data is for cameras with a serial number starting with 227 and the second piece of data is for cameras with a serial number starting with 249

Shipping information	
List of contents	<ul style="list-style-type: none"><li>• Lens</li><li>• Lens case</li></ul>
EAN-13	7332558009239
UPC-12	845188009779
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: 1195436

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1195436  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

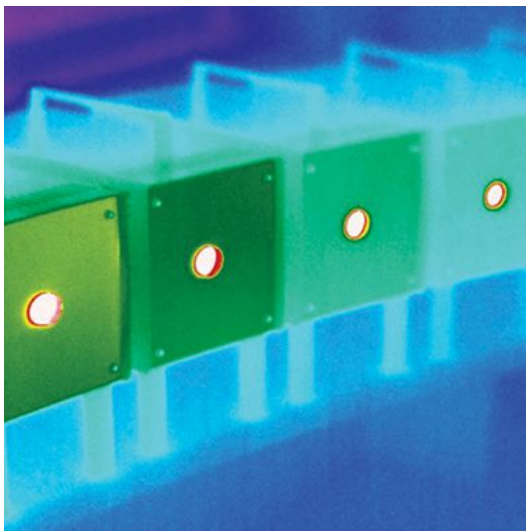
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

For high temperature applications the camera can be calibrated for high temperature ranges.

### Measurement

Optional object temperature range	Up to +900°C (+1652°F)
-----------------------------------	------------------------

### Compatibility

Compatible with FLIR products	ThermaCAM E Series (with 160 × 120 detector)
-------------------------------	--

### Compatible with the following products

- N/A

## P/N: 1910228

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1910228  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Power supply	
Power system	
AC operation	90–264 VAC, 47/63 Hz, 12 VDC ±5% output to the camera
Power	36 W
Physical data	
Size (L × W × H)	111 × 50 × 32 mm (4.4 × 2.0 × 1.3 in.)
Cable length	1.5 to 2.0 m (4.9 to 6.6 ft.)
Connector	DC cable with 2.5 mm center plug, barrel type
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009321
UPC-12	845188009854
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: 1909529

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1909529  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

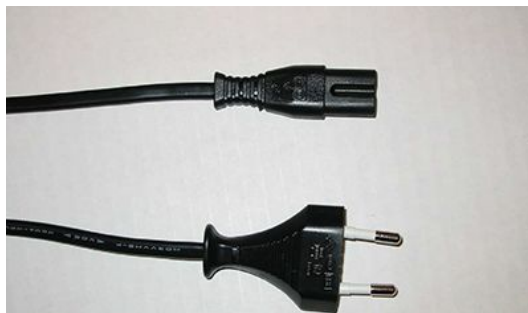
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Power cable for power supply 1910228.

250 VAC, 2.5 A.

2 poles.

Length: 1.5 to 2 m.

### Shipping information

Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009338
UPC-12	845188009861
Country of origin	Sweden

### Compatible with the following products

- N/A

**P/N: 1909530**

**Copyright**

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

**Document identity**

Publ. No.: 1909530  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

**Corporate Headquarters**

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

**Website**

<http://www.flir.com>

**Customer support**

<http://support.flir.com>

**Disclaimer**

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Power cable for Power supply 1910228.	
125 VAC, 7 A.	
2 poles.	
Length 1.5 to 2 m.	
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009345
UPC-12	845188009878
Country of origin	Sweden

**Compatible with the following products**

- N/A

## P/N: 1909531

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1909531  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Power cable for Power supply 1910228.	
250 VAC, 2.5 A.	
2 poles.	
Length 1.5 to 2 m.	
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009352
UPC-12	845188009885
Country of origin	Sweden

### Compatible with the following products

- N/A

# Accessories for FLIR A40 series (discontinued camera series)

---



## P/N: 1909921

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1909921  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This cable is used to connect the infrared camera with a computer, using Ethernet.	
Physical data	
Weight	75 g (2.6 oz.)
Cable length	2.0 m (6.6 ft.)
Connector	RJ-45 to RJ-45
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009413
UPC-12	845188009991
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: 1909954

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1909954  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This cable is used to connect the infrared camera with a computer, using FireWire.	
Physical data	
Weight	130 g (4.6 oz.)
Cable length	2.0 m (6.6 ft.)
Connector	FireWire 6-pin to 6-pin
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009420
UPC-12	845188010003
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: 908618

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 908618  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This cable is used to connect the infrared camera with a computer, using serial communication (RS-232).	
Physical data	
Weight	180 g (6.3 oz.)
Cable length	1.5 m (4.9 ft.)
Connector	9-pin D-sub male to female
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009437
UPC-12	845188010010
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: 908929

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 908929  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This cable is used to transfer video signals from the infrared camera to an external monitor, or to a computer featuring an internal video card.

### Physical data

Weight	163 g (5.7 oz.)
Cable length	3.0 m (9.8 ft.)
Connector	BNC

### Shipping information

Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009444
UPC-12	845188010027
Country of origin	Sweden

### Compatible with the following products

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°

## P/N: 1910015

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1910015  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This cable is used to connect the infrared camera to Ethernet.

### Physical data

Cable length	2.0 m (6.6 ft.)
Connector	RJ-45 to RJ-45
Cable type	CAT-5

### Shipping information

Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009451
UPC-12	845188010034
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: 1910016

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1910016  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This crossover cable is used to connect the infrared camera to Ethernet.	
Physical data	
Weight	80 g (2.8 oz.)
Cable length	2.0 m (6.6 ft.)
Connector	RJ-45 to RJ-45
Cable type	CAT-5
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009468
UPC-12	845188010041
Country of origin	Sweden

### Compatible with the following products

- N/A

**P/N: 1195815**

**Copyright**

© 2015, FLIR Systems, Inc.

All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

**Document identity**

Publ. No.: 1195815

Commit: 23306

Language: en-US

Modified: 2015-02-23 15:46

Formatted: 2015-05-12

**Corporate Headquarters**

FLIR Systems, Inc.

27700 SW Parkway Ave.

Wilsonville, OR 97070

USA

Telephone: +1-503-498-3547

**Website**

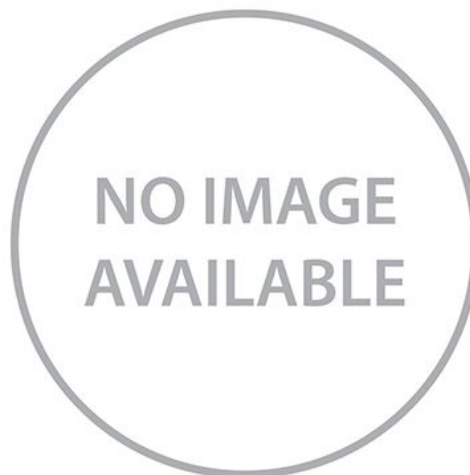
<http://www.flir.com>

**Customer support**

<http://support.flir.com>

**Disclaimer**

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Hard transport case for ThermoVision™ A40 Series	
Shipping information	
List of contents	• Transport case
EAN-13	7332558009611
UPC-12	845188010195
Country of origin	Sweden

**Compatible with the following products**

- N/A

## P/N: DSW-10000

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: DSW-10000  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

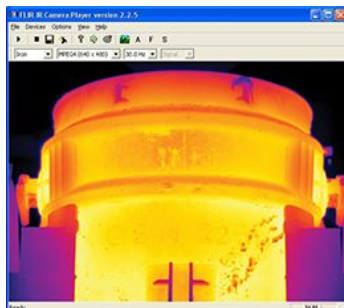
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
FLIR IR Camera Player is a PC-based remote control and viewer that you can use with cameras from FLIR Systems.	
You can perform one or more of the following with FLIR IR Camera Player:	
<ul style="list-style-type: none"> <li>Record a video stream from the camera.</li> <li>Save a frame from the video stream as a snapshot image (*.bmp).</li> <li>Autofocus, focus far, and focus near.</li> <li>Autoadjust the camera image.</li> <li>Freeze the camera image.</li> <li>Save a camera image in the camera.</li> <li>Change Color palette.</li> <li>Add an image description and a text comment to an image.</li> </ul>	
You connect a camera in one of the following ways:	
<ul style="list-style-type: none"> <li>Ethernet</li> <li>FireWire</li> <li>USB</li> </ul>	
Download	
This software is a freeware. To download, click the following link:	
<a href="http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=89">http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=89</a>	
Release notes	
Version	2.3.3
New features	<p>Main improvements in version 2.3.3:</p> <ul style="list-style-type: none"> <li>Added latest device drivers (1.9.1.0).</li> <li>Various bugfixes</li> </ul> <p>Main improvements in version 2.2.7:</p> <ul style="list-style-type: none"> <li>Added support for FLIR Ax5 series.</li> </ul>
System requirements	
Operating system	<ul style="list-style-type: none"> <li>Windows XP, 32-bit</li> <li>Windows Vista, 32-bit/64-bit</li> <li>Windows 7, 32-bit/64-bit</li> </ul>

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)



**P/N: DSW-10000**

© 2015, FLIR Systems, Inc.  
#DSW-10000; r. 24597; en-US

- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc

**P/N: DSW-10000**

© 2015, FLIR Systems, Inc.  
#DSW-10000; r. 24597; en-US

- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)



---

**P/N: DSW-10000**

© 2015, FLIR Systems, Inc.  
#DSW-10000; r. 24597; en-US

- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

**P/N: T198696**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: T198696  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

FLIR ResearchIR Max 4.0 is aimed at R&D and science professionals who use thermal imaging cameras with a cooled or uncooled detectors. FLIR ResearchIR Max makes the most of a thermal imaging camera, and allows high-speed recording and advanced thermal pattern analysis. FLIR ResearchIR Max is the perfect tool for industrial R&D.

### Main features:

- Pre/post-recording.
- Mathematical processing toolbox.
- Image filtering toolbox.
- Radiometric digital detail enhancement (DDE) improves dramatically the understanding of the thermal image, while maintaining radiometric measurement accuracy.
- View, record and store images at high speed.
- Post-processing of fast thermal events.
- Generate time-temperature plots from live images or recorded sequences.
- Advanced start/stop recording conditions.
- Unlimited number of analysis functions (spot, line, area).
- File organizer.
- Zoom and pan allows a closer look.
- Multiple dockable objects for plots and statistics.
- Export images and results to bitmap, video, Excel, MATLAB or CSV formats
- Local scale gain control on measurement - automatically adjusts the contrast in a specific part of the image.

FLIR ResearchIR Max 4 in combination with a FLIR thermal imaging camera is the perfect solution for any R&D or scientific application. It will allow researchers in all fields to make the smallest of temperature differences visible and to thoroughly analyze the thermal process in real-time.

## Download

Download your copy of FLIR ResearchIR Max 4 here (hardware security device required to run the software):

<http://support.flir.com/rir4>

## Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• FLIR ResearchIR Max 4 download card.</li> <li>• Hardware security device.</li> </ul>
Packaging, weight	0.066 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558007266
UPC-12	845188007638
Country of origin	Sweden

## Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)

**P/N: T198696**

© 2015, FLIR Systems, Inc.  
#T198696; r. 24597; en-US

- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 42901-1001; FLIR A305sc
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens

**P/N: T198696**

© 2015, FLIR Systems, Inc.  
#T198696; r. 24597; en-US

- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

**P/N: T198697**

## Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

## Document identity

Publ. No.: T198697  
Commit: 24597  
Language: en-US  
Modified: 2015-04-09 13:38  
Formatted: 2015-05-12

## Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

## Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



## General description

FLIR ResearchIR Max + HSDR 4 contains all the features of FLIR ResearchIR Max 4, plus support for FLIR High Speed Data Recorder (HSDR) products.

### Main features:

- Pre/post-recording.
- Mathematical processing toolbox.
- Image filtering toolbox.
- Radiometric digital detail enhancement (DDE) improves dramatically the understanding of the thermal image, while maintaining radiometric measurement accuracy.
- View, record and store images at high speed.
- Post-processing of fast thermal events.
- Generate time-temperature plots from live images or recorded sequences.
- Advanced start/stop recording conditions.
- Unlimited number of analysis functions (spot, line, area).
- File organizer.
- Zoom and pan allows a closer look.
- Multiple dockable objects for plots and statistics.
- Export images and results to bitmap, video, Excel, MATLAB or CSV formats
- Local scale gain control on measurement - automatically adjusts the contrast in a specific part of the image.

FLIR ResearchIR Max + HSDR 4 in combination with a FLIR thermal imaging camera is the perfect solution for any R&D or scientific application. It will allow researchers in all fields to make the smallest of temperature differences visible and to thoroughly analyze the thermal process in real-time.

## Download

Download your copy of FLIR ResearchIR Max + HSDR 4 here (hardware security device required to run the software):

<http://support.flir.com/rir4>

## Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• FLIR ResearchIR Max + HSDR 4 download card.</li> <li>• Hardware security device.</li> </ul>
Packaging, weight	0.068 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558007280
UPC-12	845188007652
Country of origin	Sweden

## Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)

**P/N: T198697**

© 2015, FLIR Systems, Inc.  
#T198697; r. 24597; en-US

- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 62103-1102; FLIR T420 (incl. Wi-Fi and 15° lens)
- 62103-1103; FLIR T420 (incl. Wi-Fi and 45° lens)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 42901-1001; FLIR A305sc
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens



**P/N: T198697**

© 2015, FLIR Systems, Inc.  
#T198697; r. 24597; en-US

- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0111; FLIR E40 (incl. Wi-Fi, with CM83 and VP50)
- 64501-0112; FLIR E40 (incl. Wi-Fi, with CM83 and VP52)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0513; FLIR E40bx (incl. Wi-Fi, with FLIR MR77)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

## P/N: ITC-ADV-3021

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3021  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This interdisciplinary course bridges the gap between IR thermography, background science and application theory. Being an overview course it deals with three main application fields of thermography: electrical, industrial, and building. For every application the participant will learn about the specific theory, typical faults, and how to detect them with a thermography camera. The student will also learn about the basics of condition monitoring, and maintenance.

Examples and case studies from the real world illustrate the course content and are discussed with the participants. Participants will be trained in discovering and identifying typical faults by typical thermal patterns.

### Content

- Introduction
- Electrical Applications (current, voltage, resistance, electrical systems, Ohm's law, some important properties of materials, typical faults, surveying methodology and criteria, safety, voltage limits)
- Industrial Applications (bearings, pumps, gears, belts, misalignment and couplings, gaskets, seals, rings, glands, steam traps, furnaces)
- Building Applications (definition of the building envelope, steady state thermal transfer in a building envelope, transient thermal transfer in a building envelope, applications)

### Course information

Available languages	
English	
Target group	<ul style="list-style-type: none"> <li>• Professional thermographers holding a Level 1 or a Level 2 certificate and</li> <li>• with interest in increasing their knowledge of different thermographic applications, and their limitations or</li> <li>• with a special interest in condition monitoring of machines</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Knows how to operate the camera</li> <li>• Knows how to report</li> <li>• Works in the industry with e.g. maintenance and condition monitoring or is a consultant</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Valid Level 1 thermography certificate</li> <li>• IR related education and experience</li> </ul>

**P/N: ITC-ADV-3021**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3021; r. 23306; en-US

Course details	
Duration	3 days (24 hours)
Structure	The course is divided into the three parts: Electrical Applications, Industrial Applications, and Building Applications. Theory sessions and case studies including interactive discussions alternate.
Exam	A final exam (30 multiple choice questions) will be written on the 3d day in the afternoon. In connection, the correct answers will be discussed by the instructor and the participants.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Attendance of 1 person</li> <li>• Might include more, such as lunch, depending on location and organizing entity</li> </ul>
Course organization	
ITC	The Advanced General Thermography Course is offered worldwide by ITC as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary.
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Advanced General Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)

**P/N: ITC-ADV-3021**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3021; r. 23306; en-US

- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC

---

**P/N: ITC-ADV-3021**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3021; r. 23306; en-US

- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-ADV-3029

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3029  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This interdisciplinary course bridges the gap between IR thermography, background science and application theory. Being an overview course it deals with three main application fields of thermography: electrical, industrial, and building. For every application the participant will learn about the specific theory, typical faults, and how to detect them with a thermography camera. The student will also learn about the basics of condition monitoring, and maintenance.

Examples and case studies from the real world illustrate the course content and are discussed with the participants. Participants will be trained in discovering and identifying typical faults by typical thermal patterns.

### Content

- Introduction
- Electrical Applications (current, voltage, resistance, electrical systems, Ohm's law, some important properties of materials, typical faults, surveying methodology and criteria, safety, voltage limits)
- Industrial Applications (bearings, pumps, gears, belts, misalignment and couplings, gaskets, seals, rings, glands, steam traps, furnaces)
- Building Applications (definition of the building envelope, steady state thermal transfer in a building envelope, transient thermal transfer in a building envelope, applications)

### Course information

Available languages	
English	
Target group	
<ul style="list-style-type: none"> <li>• Professional thermographers holding a Level 1 or a Level 2 certificate and</li> <li>• with interest in increasing their knowledge of different thermographic applications, and their limitations or</li> <li>• with a special interest in condition monitoring of machines</li> </ul>	
Typical student	
<ul style="list-style-type: none"> <li>• Knows how to operate the camera</li> <li>• Knows how to report</li> <li>• Works in the industry with e.g. maintenance and condition monitoring or is a consultant</li> </ul>	
Pre-requisites	
<ul style="list-style-type: none"> <li>• Valid Level 1 thermography certificate</li> <li>• IR related education and experience</li> </ul>	

**P/N: ITC-ADV-3029**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3029; r. 23306; en-US

Course details	
Duration	3 days (24 hours)
Structure	The course is divided into the three parts: Electrical Applications, Industrial Applications, and Building Applications. Theory sessions and case studies including interactive discussions alternate.
Exam	A final exam (30 multiple choice questions) will be written on the 3d day in the afternoon. In connection, the correct answers will be discussed by the instructor and the participants.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Attendance of a group up to 10 persons</li> <li>• Might include more, such as lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	The Advanced General Thermography Course is offered worldwide by ITC as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary.
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Advanced General Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)

**P/N: ITC-ADV-3029**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3029; r. 23306; en-US

- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL



---

**P/N: ITC-ADV-3029**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3029; r. 23306; en-US

- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-EXP-1041

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1041  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This is a special day emphasizing on specifications of equipment towards the particularities of applications (for instance triggering or high speed). It addresses mainly the needs of high-end camera users in the scientific or industrial fields.

#### Content

- Customized

#### Labs

- Customized

### Course information

Available languages	English, French, other languages upon request
Target group	<ul style="list-style-type: none"> <li>• Highly specialized users with advanced and scientific applications as well as persons interested in these applications and related infrared equipment.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Researchers</li> <li>• Scientists</li> <li>• University students</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic knowledge about thermography and related parameters.</li> <li>• Experience in measurement techniques and general software skills.</li> </ul>

### Course details

Duration	Typically 1 day
Structure	Theory and hands-on, depending on topics
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by qualified ITC instructor</li> <li>• Training material</li> <li>• Diploma of attendance</li> </ul>
Note	This course is typically organized at the customer's site. Course fee does not include cost for instructor's travelling or lodging. The customer is responsible for providing a suitable classroom and preferably also refreshments/lunch.

**P/N: ITC-EXP-1041**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1041; r. 23306; en-US

Course organization	
ITC	ITC customized workshops are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	ITC customized workshops are lectured by ITC qualified specialists having the relevant expertise in the workshop's subject and the related fields of application.

**Compatible with the following products**

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC

**P/N: ITC-EXP-1041**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1041; r. 23306; en-US

- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

## P/N: ITC-EXP-1021

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1021  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

An on-site training can be customized upon your needs. The participants will learn about IR thermography, inspections, measurements, applications, and reporting corresponding to the level needed for performing measurements and inspection in their working environment. The trainer will give useful advice on how to best implement IR thermography in your business.

This partnumber is reserved for adding additional students to an on site class.

### Content

- An on-site course can be any course, from a 1-day introduction to general thermography, over a customized application course to a complete certification course.

### Labs

- Portable classroom labs
- Field training on the site in agreement with the customer

### Course information

Available languages	English, Dutch, German, French, Italian, Spanish, Swedish, other languages upon request
Target group	<ul style="list-style-type: none"> <li>• Employees of a company or certain departments who would like to minimize travel costs and receive the training directly on their daily working site.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>

### Course details

Duration	Customized or according to the kind of course the in-house training is equivalent to.
Structure	Theory, camera handling, demos, practical labs and field training alternate.

**P/N: ITC-EXP-1021**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1021; r. 23306; en-US

Course details	
Exam	Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> </ul>
Course organization	
ITC	ITC In-house courses are offered worldwide by ITC and partners as listed. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	ITC In-house courses are lectured by ITC qualified instructors with experience in the relevant fields of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm

**P/N: ITC-EXP-1021**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1021; r. 23306; en-US

- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°

**P/N: ITC-EXP-1021**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1021; r. 23306; en-US

- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display



## P/N: ITC-EXP-1029

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1029  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
An on-site training can be customized upon your needs. The participants will learn about IR thermography, inspections, measurements, applications, and reporting corresponding to the level needed for performing measurements and inspection in their working environment. The trainer will give useful advice on how to best implement IR thermography in your business.	
Content	
<ul style="list-style-type: none"> <li>An on-site course can be any course, from a 1-day introduction to general thermography, over a customized application course to a complete certification course.</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Portable classroom labs</li> <li>Field training on the site in agreement with the customer</li> </ul>	
Course information	
Available languages	English, Dutch, German, French, Italian, Spanish, Swedish, other languages upon request
Target group	<ul style="list-style-type: none"> <li>Employees of a company or certain departments who would like to minimize travel costs and receive the training directly on their daily working site.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>
Course details	
Duration	Customized or according to the kind of course the in-house training is equivalent to.
Structure	Theory, camera handling, demos, practical labs and field training alternate.
Exam	Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.

**P/N: ITC-EXP-1029**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1029; r. 23306; en-US

Course details	
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> </ul>
Note	Course fee does not include cost for instructor's travelling or lodging. When organized at the customers' site, the customer is responsible for providing a suitable classroom and preferably also refreshments/lunch.
Course organization	
ITC	ITC In-house courses are offered worldwide by ITC and partners as listed. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	ITC In-house courses are lectured by ITC qualified instructors with experience in the relevant fields of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)

**P/N: ITC-EXP-1029**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1029; r. 23306; en-US

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL

**P/N: ITC-EXP-1029**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1029; r. 23306; en-US

- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-CER-5105

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5105  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 1 certified thermographer. The participant will learn about the basics of infrared, how to operate the camera under different conditions and for various purposes, how to do an appropriate judgement of the measurement situation in the field and how to identify potential error sources. After the class, the participant will be able to do IR inspections following written guidelines and to report the result of this inspection.

This partnumber is reserved for adding additional students to a level 1 on site class.

### Content

- Introduction to Thermography
- Camera Operation
- Basic physics of heat
- Basic physics of infrared
- Thermal pattern recognition and IR applications
- IR temperature measurement techniques
- Qualitative and quantitative thermography
- Inspection routines and reporting

### Student presentations

During the seminar, students will generate a small case study based on the lab exercises to be presented to the class.

### Labs

- Camera handling
- Level and Span
- Conduction pattern
- Forced convection
- Direct and indirect thermal measurement
- Thermal capacity
- Steady state and transient heat flow
- Evaporation and condensation
- Electrical application
- Emissivity and Reflected apparent temperature
- Spatial resolution
- Location and temperature measurement of a hot/cold spot
- Image transfer to the computer

**P/N: ITC-CER-5105**

© 2015, FLIR Systems, Inc.

#ITC-CER-5105; r. 23306; en-US

Course information	
Available languages	Chinese, Danish, Dutch, English, Finish, French, German, Greek, Hebrew, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (bra.), Romanian, Russian, Serbo-Croatian, Spanish, Swedish, Thai
Target group	<ul style="list-style-type: none"> <li>• Practical user</li> <li>• This course is designed for beginners in thermography with some experience in camera handling and limited IR knowledge, who want to take their first step to become a professional thermographer and want to qualify as a Level 1 certified thermographer.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>• having already some basic experience with IR thermography,</li> <li>• knowing the basic functions of the camera,</li> <li>• who wants to become a certified thermographer in order to gain a competitive advantage or who needs the certifications because of legal reasons or company internal regulations.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Be familiar with the basic operation of an infrared camera</li> <li>• Have the recommended experience within thermography according to relevant standards</li> </ul>

Course details	
Duration	35 – 40 hours
Structure	Theory and camera practice (hands-on) alternate every day, additional labs and software exercises at some days.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>• Attendance of 1 person</li> <li>• Might include more, such as lunch, depending on location and organizing entity</li> </ul>
Note	Only for non-EURO, non-SEK, non NOK, non- £, -non CHF countries

Course organization	
ITC	The Level 1 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)

**P/N: ITC-CER-5105**

© 2015, FLIR Systems, Inc.

#ITC-CER-5105; r. 23306; en-US

- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc

**P/N: ITC-CER-5105**

© 2015, FLIR Systems, Inc.

#ITC-CER-5105; r. 23306; en-US

- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display



## P/N: ITC-CER-5101

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5101  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 1 certified thermographer. The participant will learn about the basics of infrared, how to operate the camera under different conditions and for various purposes, how to do an appropriate judgement of the measurement situation in the field and how to identify potential error sources. After the class, the participant will be able to do IR inspections following written guidelines and to report the result of this inspection.

### Content

- Introduction to Thermography
- Camera Operation
- Basic physics of heat
- Basic physics of infrared
- Thermal pattern recognition and IR applications
- IR temperature measurement techniques
- Qualitative and quantitative thermography
- Inspection routines and reporting

### Student presentations

During the seminar, students will generate a small case study based on the lab exercises to be presented to the class.

### Labs

- Camera handling
- Level and Span
- Conduction pattern
- Forced convection
- Direct and indirect thermal measurement
- Thermal capacity
- Steady state and transient heat flow
- Evaporation and condensation
- Electrical application
- Emissivity and Reflected apparent temperature
- Spatial resolution
- Location and temperature measurement of a hot/cold spot
- Image transfer to the computer

**P/N: ITC-CER-5101**

© 2015, FLIR Systems, Inc.

#ITC-CER-5101; r. 23306; en-US

Course information	
Available languages	Chinese, Danish, Dutch, English, Finish, French, German, Greek, Hebrew, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (bra.), Romanian, Russian, Serbo-Croatian, Spanish, Swedish, Thai
Target group	<ul style="list-style-type: none"> <li>Practical user</li> <li>This course is designed for beginners in thermography with some experience in camera handling and limited IR knowledge, who want to take their first step to become a professional thermographer and want to qualify as a Level 1 certified thermographer.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>having already some basic experience with IR thermography,</li> <li>knowing the basic functions of the camera,</li> <li>who wants to become a certified thermographer in order to gain a competitive advantage or who needs the certifications because of legal reasons or company internal regulations.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Be familiar with the basic operation of an infrared camera</li> <li>Have the recommended experience within thermography according to relevant standards</li> </ul>

Course details	
Duration	35 – 40 hours
Structure	Theory and camera practice (hands-on) alternate every day, additional labs and software exercises at some days.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>Attendance of 1 person</li> <li>Might include more, such as lunch, depending on location and organizing entity</li> </ul>

Course organization	
ITC	The Level 1 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)

**P/N: ITC-CER-5101**

© 2015, FLIR Systems, Inc.

#ITC-CER-5101; r. 23306; en-US

- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)

**P/N: ITC-CER-5101**

© 2015, FLIR Systems, Inc.

#ITC-CER-5101; r. 23306; en-US

- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-CER-5109

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5109  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 1 certified thermographer. The participant will learn about the basics of infrared, how to operate the camera under different conditions and for various purposes, how to do an appropriate judgement of the measurement situation in the field and how to identify potential error sources. After the class, the participant will be able to do IR inspections following written guidelines and to report the result of this inspection.

### Content

- Introduction to Thermography
- Camera Operation
- Basic physics of heat
- Basic physics of infrared
- Thermal pattern recognition and IR applications
- IR temperature measurement techniques
- Qualitative and quantitative thermography
- Inspection routines and reporting

### Student presentations

During the seminar, students will generate a small case study based on the lab exercises to be presented to the class.

### Labs

- Camera handling
- Level and Span
- Conduction pattern
- Forced convection
- Direct and indirect thermal measurement
- Thermal capacity
- Steady state and transient heat flow
- Evaporation and condensation
- Electrical application
- Emissivity and Reflected apparent temperature
- Spatial resolution
- Location and temperature measurement of a hot/cold spot
- Image transfer to the computer

**P/N: ITC-CER-5109**

© 2015, FLIR Systems, Inc.

#ITC-CER-5109; r. 23306; en-US

Course information	
Available languages	Chinese, Danish, Dutch, English, Finish, French, German, Greek, Hebrew, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (bra.), Romanian, Russian, Serbo-Croatian, Spanish, Swedish, Thai
Target group	<ul style="list-style-type: none"> <li>Practical user</li> <li>This course is designed for beginners in thermography with some experience in camera handling and limited IR knowledge, who want to take their first step to become a professional thermographer and want to qualify as a Level 1 certified thermographer.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>having already some basic experience with IR thermography,</li> <li>knowing the basic functions of the camera,</li> <li>who wants to become a certified thermographer in order to gain a competitive advantage or who needs the certifications because of legal reasons or company internal regulations.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Be familiar with the basic operation of an infrared camera</li> <li>Have the recommended experience within thermography according to relevant standards</li> </ul>

Course details	
Duration	35 – 40 hours
Structure	Theory and camera practice (hands-on) alternate every day, additional labs and software exercises at some days.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>

Course organization	
ITC	The Level 1 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)

**P/N: ITC-CER-5109**

© 2015, FLIR Systems, Inc.

#ITC-CER-5109; r. 23306; en-US

- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310

**P/N: ITC-CER-5109**

© 2015, FLIR Systems, Inc.

#ITC-CER-5109; r. 23306; en-US

- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display



## P/N: ITC-CER-5205

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5205  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 2 certified thermographer. The participant will learn about topics in infrared thermography to increase the knowledge about infrared physics, heat science, infrared measurement equipment and its application. As a Level 2 thermographer the participant shall provide guidance to category 1 personnel in the areas of equipment selection, techniques, limitations, data analysis, corrective actions and reporting.

This partnumber is reserved for adding additional students to a level 2 on site class.

### Content

- Thermal science
- Heat transfer
- Temperature measurement
- Infrared science
- IR equipment and applications

### Student presentations

During the seminar, students shall present a prepared case study to the class. The maximum duration (excl. discussion) should be 7 minutes and the maximum number of 7 slides should not be exceeded.

### Labs (Note: Labs marked "(M)" are mandatory)

- Newton's law (class lab) (M)
- Advanced emissivity measurement (M)
- Variation of emissivity with the angle (M)
- Transient thermal transfer
- Indirect power measurement (M)
- IR-window transmission (M)
- Slit Response Function
- Hole Response Function (M)
- Parallel circuits

### Course information

Available languages	Dutch, English, German, French, Italian, Portuguese (bra.), Spanish, Swedish
Target group	<ul style="list-style-type: none"> <li>• Professional user</li> <li>• This course is designed for thermographers holding a Level 1 certificate, who want to increase their knowledge about IR thermography and who want to qualify as a Level 2 certified thermographer.</li> </ul>

**P/N: ITC-CER-5205**

© 2015, FLIR Systems, Inc.

#ITC-CER-5205; r. 23306; en-US

Course information	
Typical student	<ul style="list-style-type: none"> <li>A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>having several months of professional experience within thermography,</li> <li>versed in camera operation and reporting,</li> <li>holding a Level 1 certificate,</li> <li>who needs the Level 2 Certification for guidance and supervision of other thermographers or is interested in deeper understanding of IR thermography.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Valid Level 1 thermography certificate,</li> <li>Recommended experience within thermography according to relevant standards,</li> <li>Prepared case study to be presented at the Level 2 course and submitted towards qualification at course closing.</li> </ul>

Course details	
Duration	40 hours
Structure	Theory, camera practice (hands-on), and prepared case studies alternate every day.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>Attendance of 1 person</li> <li>Might include more, such as lunch, depending on location and organizing entity.</li> </ul>
Note	Only for non-EURO, non-SEK, non NOK, non- £, -non CHF countries

Course organization	
ITC	The Level 2 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in T560393 Courses offered by ITC partners. Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)

**P/N: ITC-CER-5205**

© 2015, FLIR Systems, Inc.

#ITC-CER-5205; r. 23306; en-US

- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°

**P/N: ITC-CER-5205**

© 2015, FLIR Systems, Inc.

#ITC-CER-5205; r. 23306; en-US

- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-CER-5201

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5201  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 2 certified thermographer. The participant will learn about topics in infrared thermography to increase the knowledge about infrared physics, heat science, infrared measurement equipment and its application. As a Level 2 thermographer the participant shall provide guidance to category 1 personnel in the areas of equipment selection, techniques, limitations, data analysis, corrective actions and reporting.

### Content

- Thermal science
- Heat transfer
- Temperature measurement
- Infrared science
- IR equipment and applications

### Student presentations

During the seminar, students shall present a prepared case study to the class. The maximum duration (excl. discussion) should be 7 minutes and the maximum number of 7 slides should not be exceeded.

### Labs (Note: Labs marked "(M)" are mandatory)

- Newton's law (class lab) (M)
- Advanced emissivity measurement (M)
- Variation of emissivity with the angle (M)
- Transient thermal transfer
- Indirect power measurement (M)
- IR-window transmission (M)
- Slit Response Function
- Hole Response Function (M)
- Parallel circuits

### Course information

#### Available languages

Dutch, English, German, French, Italian, Portuguese (bra.), Spanish, Swedish

#### Target group

- Professional user
- This course is designed for thermographers holding a Level 1 certificate, who want to increase their knowledge about IR thermography and who want to qualify as a Level 2 certified thermographer.

**P/N: ITC-CER-5201**

© 2015, FLIR Systems, Inc.

#ITC-CER-5201; r. 23306; en-US

Course information	
Typical student	<ul style="list-style-type: none"> <li>A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>having several months of professional experience within thermography,</li> <li>versed in camera operation and reporting,</li> <li>holding a Level 1 certificate,</li> <li>who needs the Level 2 Certification for guidance and supervision of other thermographers or is interested in deeper understanding of IR thermography.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Valid Level 1 thermography certificate,</li> <li>Recommended experience within thermography according to relevant standards,</li> <li>Prepared case study to be presented at the Level 2 course and submitted towards qualification at course closing.</li> </ul>
Course details	
Duration	40 hours
Structure	Theory, camera practice (hands-on), and prepared case studies alternate every day.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>Attendance of 1 person</li> <li>Might include more, such as lunch, depending on location and organizing entity.</li> </ul>
Course organization	
ITC	The Level 2 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in T560393 Courses offered by ITC partners. Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)

**P/N: ITC-CER-5201**

© 2015, FLIR Systems, Inc.

#ITC-CER-5201; r. 23306; en-US

- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°

**P/N: ITC-CER-5201**

© 2015, FLIR Systems, Inc.

#ITC-CER-5201; r. 23306; en-US

- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°



## P/N: ITC-CER-5209

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5209  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 2 certified thermographer. The participant will learn about topics in infrared thermography to increase the knowledge about infrared physics, heat science, infrared measurement equipment and its application. As a Level 2 thermographer the participant shall provide guidance to category 1 personnel in the areas of equipment selection, techniques, limitations, data analysis, corrective actions and reporting.

### Content

- Thermal science
- Heat transfer
- Temperature measurement
- Infrared science
- IR equipment and applications

### Student presentations

During the seminar, students shall present a prepared case study to the class. The maximum duration (excl. discussion) should be 7 minutes and the maximum number of 7 slides should not be exceeded.

### Labs (Note: Labs marked "(M)" are mandatory)

- Newton's law (class lab) (M)
- Advanced emissivity measurement (M)
- Variation of emissivity with the angle (M)
- Transient thermal transfer
- Indirect power measurement (M)
- IR-window transmission (M)
- Slit Response Function
- Hole Response Function (M)
- Parallel circuits

### Course information

#### Available languages

Dutch, English, German, French, Italian, Portuguese (bra.), Spanish, Swedish

#### Target group

- Professional user
- This course is designed for thermographers holding a Level 1 certificate, who want to increase their knowledge about IR thermography and who want to qualify as a Level 2 certified thermographer.

**P/N: ITC-CER-5209**

© 2015, FLIR Systems, Inc.

#ITC-CER-5209; r. 23306; en-US

Course information	
Typical student	<ul style="list-style-type: none"> <li>A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>having several months of professional experience within thermography,</li> <li>versed in camera operation and reporting,</li> <li>holding a Level 1 certificate,</li> <li>who needs the Level 2 Certification for guidance and supervision of other thermographers or is interested in deeper understanding of IR thermography.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Valid Level 1 thermography certificate,</li> <li>Recommended experience within thermography according to relevant standards,</li> <li>Prepared case study to be presented at the Level 2 course and submitted towards qualification at course closing.</li> </ul>
Course details	
Duration	40 hours
Structure	Theory, camera practice (hands-on), and prepared case studies alternate every day.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as lunch, instructor's travel expenses, etc. depending on location and organizing entity.</li> </ul>
Course organization	
ITC	The Level 2 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in T560393 Courses offered by ITC partners. Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)

**P/N: ITC-CER-5209**

© 2015, FLIR Systems, Inc.

#ITC-CER-5209; r. 23306; en-US

- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°

**P/N: ITC-CER-5209**

© 2015, FLIR Systems, Inc.

#ITC-CER-5209; r. 23306; en-US

- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-EXP-2036

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2036  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This 2-day course consists of lectures on theoretical subjects, plus hands-on.

After a general review of heat and heat transfer, the participants will learn about radiative heat transfer, and thermography equipment. Intensive practice is performed on software.

### Content

- Introduction
- Review on thermal transfer
- Radiative heat transfer (includes estimation of  $T_{\text{Refl}}$  and the emissivity) (with practice)
- Thermography equipment
- Software e.g. ThermoCAM Researcher, FLIR Quickplot or FLIR ResearchIR

### Labs

- Measurements and software exercises

### Course information

Available languages	English, other languages upon request
Target group	<ul style="list-style-type: none"> <li>• Users of FLIR uncooled thermal cameras working with software programs as ThermoCAM Researcher, FLIR Quickplot or FLIR ResearchIR</li> <li>• and with infrared applications in the industry or at research institutions.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Laboratory and industry technical personnel</li> <li>• Researchers and scientists</li> <li>• University students</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic knowledge about thermography and related parameters.</li> <li>• Experience in measurement techniques and general software skills.</li> </ul>

### Course details

Duration	Standard: 2 days (in succession or separate) Upon request: Additional day including complementary topics (ITC-EXP-3006) Upon request: 1 day only (for experienced users with sufficient theoretical background)
Structure	Theory and hands-on

**P/N: ITC-EXP-2036**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2036; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training and/or reference material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 6 persons</li> </ul>
Note	This is normally an on-site course organized at a customer's facility. The fee does not include costs for instructor's travelling or lodging. The customer is responsible for providing access to the equipment or objects that should be analyzed or measured, a suitable meeting room, and preferably also refreshments/lunch.
Course organization	
ITC	The course "ITC R&D basics for industry users" is offered by ITC direct operations in EMEA. Specific customer requests shall be forwarded to the closest ITC or ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The course "ITC R&D basics for industry users" is delivered by ITC qualified instructors having the relevant expertise in advanced thermal measurement, infrared applications, and the use of the camera equipment including software programs.

**Compatible with the following products**

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°

**P/N: ITC-EXP-2036**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2036; r. 23306; en-US

- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-EXP-2025

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2025  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This full 2-day course aims at explaining how to set-up a procedure for the temperature control of population. It is designed for persons who might have to implement a control (medical authorities, customs, civil security, etc). It starts with a brief, but necessary, reminder of thermal transfers and of the fundamentals of thermography. Key factors such as NETD, drift and drift compensation, baseline measurement and update, and the factors influencing the diagnosis are explained in details. Camera setup is included. ITC recommends organizing it simultaneously to a real-size test (airport, ferry-port, seaport, river port, stadium, etc.).

This partnumber is reserved for adding additional students to a fever screening on site class.

### Content

- Introduction
- Human physiological factors
- Basic thermography
- IR Camera basics
- Fever screening methodology

### Labs

- Emissivity and Trefl
- Camera settings
- Influence of the object size on the measurement

### Course information

Available languages	English
Target group	<ul style="list-style-type: none"> <li>• Persons with professional interest in human febrile temperature screening.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Airline operative personnel</li> <li>• Reception personnel</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic technical understanding</li> <li>• Should be organized with a real-size test in the field</li> </ul>

### Course details

Duration	2 days
Structure	Theory, camera handling, demos in the morning and practical labs alternate.



**P/N: ITC-EXP-2025**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2025; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>
Course organization	
ITC	The "ITC Short Course Fever Screening" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Fever Screening" is lectured by qualified ITC instructors with special experience in human febrile temperature screening.

**Compatible with the following products**

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL

---

**P/N: ITC-EXP-2025**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2025; r. 23306; en-US

- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-EXP-2021

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2021  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This full 2-day course aims at explaining how to set-up a procedure for the temperature control of population. It is designed for persons who might have to implement a control (medical authorities, customs, civil security, etc). It starts with a brief, but necessary, reminder of thermal transfers and of the fundamentals of thermography. Key factors such as NETD, drift and drift compensation, baseline measurement and update, and the factors influencing the diagnosis are explained in details. Camera setup is included. ITC recommends organizing it simultaneously to a real-size test (airport, ferry-port, seaport, river port, stadium, etc.).

### Content

- Introduction
- Human physiological factors
- Basic thermography
- IR Camera basics
- Fever screening methodology

### Labs

- Emissivity and Trefl
- Camera settings
- Influence of the object size on the measurement

### Course information

Available languages	English
Target group	<ul style="list-style-type: none"> <li>• Persons with professional interest in human febrile temperature screening.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Airline operative personnel</li> <li>• Reception personnel</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic technical understanding</li> <li>• Should be organized with a real-size test in the field</li> </ul>

### Course details

Duration	2 days
Structure	Theory, camera handling, demos in the morning and practical labs alternate.

**P/N: ITC-EXP-2021**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2021; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by qualified ITC instructor</li> <li>• Training material in printed format</li> <li>• Diploma of attendance</li> <li>• Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>
Course organization	
ITC	The "ITC Short Course Fever Screening" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Fever Screening" is lectured by qualified ITC instructors with special experience in human febrile temperature screening.

**Compatible with the following products**

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL

---

**P/N: ITC-EXP-2021**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2021; r. 23306; en-US

- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-EXP-2029

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2029  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This full 2-day course aims at explaining how to set-up a procedure for the temperature control of population. It is designed for persons who might have to implement a control (medical authorities, customs, civil security, etc). It starts with a brief, but necessary, reminder of thermal transfers and of the fundamentals of thermography. Key factors such as NETD, drift and drift compensation, baseline measurement and update, and the factors influencing the diagnosis are explained in details. Camera setup is included. ITC recommends organizing it simultaneously to a real-size test (airport, ferry-port, seaport, river port, stadium, etc.).

### Content

- Introduction
- Human physiological factors
- Basic thermography
- IR Camera basics
- Fever screening methodology

### Labs

- Emissivity and Trefl
- Camera settings
- Influence of the object size on the measurement

### Course information

Available languages	English
Target group	<ul style="list-style-type: none"> <li>• Persons with professional interest in human febrile temperature screening.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Airline operative personnel</li> <li>• Reception personnel</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic technical understanding</li> <li>• Should be organized with a real-size test in the field</li> </ul>

### Course details

Duration	2 days
Structure	Theory, camera handling, demos in the morning and practical labs alternate.

**P/N: ITC-EXP-2029**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2029; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by qualified ITC instructor</li> <li>• Training material in printed format</li> <li>• Diploma of attendance</li> <li>• Attendance of a group up to 10 persons</li> <li>• Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	The "ITC Short Course Fever Screening" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Fever Screening" is lectured by qualified ITC instructors with special experience in human febrile temperature screening.

**Compatible with the following products**

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC

**P/N: ITC-EXP-2029**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2029; r. 23306; en-US

- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°



## P/N: ITC-EXP-1019

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1019  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This is a full one day course for beginners and everybody interested in IR thermography and its applications. The course covers the basics of IR theory and includes demos, camera hand-on and practical exercises using relevant key labs.

#### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- Introduction to electrical and building inspections
- IR Camera handling
- Data analysis and reports

#### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement

### Course information

Available languages	English, French, German, Swedish, Danish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in IR thermography and its applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> <li>• A person who starts to use IR cameras at work</li> <li>• Students and pupils with thermography related projects</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>

### Course details

Duration	1 day
Structure	Theory, camera handling and demos in the morning. Practical labs in the afternoon.

**P/N: ITC-EXP-1019**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1019; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	The "ITC Short Course Introduction to Thermography" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Introduction to Thermography" is lectured by qualified ITC instructors with long time experience in the various fields of thermography.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)

**P/N: ITC-EXP-1019**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1019; r. 23306; en-US

- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC



---

**P/N: ITC-EXP-1019**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1019; r. 23306; en-US

- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-1011

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1011  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This is a full one day course for beginners and everybody interested in IR thermography and its applications. The course covers the basics of IR theory and includes demos, camera hand-on and practical exercises using relevant key labs.

#### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- Introduction to electrical and building inspections
- IR Camera handling
- Data analysis and reports

#### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement

### Course information

Available languages	English, French, German, Swedish, Danish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in IR thermography and its applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> <li>• A person who starts to use IR cameras at work</li> <li>• Students and pupils with thermography related projects</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>

### Course details

Duration	1 day
Structure	Theory, camera handling and demos in the morning. Practical labs in the afternoon.

**P/N: ITC-EXP-1011**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1011; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by qualified ITC instructor</li> <li>• Training material in printed format</li> <li>• Diploma of attendance</li> <li>• Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>
Course organization	
ITC	The "ITC Short Course Introduction to Thermography" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Introduction to Thermography" is lectured by qualified ITC instructors with long time experience in the various fields of thermography.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)

**P/N: ITC-EXP-1011**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1011; r. 23306; en-US

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL

---

**P/N: ITC-EXP-1011**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1011; r. 23306; en-US

- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display



## P/N: ITC-SOW-0001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-SOW-0001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
These courses are for users of FLIR software like FLIR Reporter Professional or FLIR ResearchIR. Please observe that content and labs depend on the software used.	
Content	
<ul style="list-style-type: none"> <li>• System requirements</li> <li>• Configuration</li> <li>• Analyzing functions</li> <li>• Templates</li> <li>• Reporting functions</li> <li>• Data exchange</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>• System set up</li> <li>• Data import</li> <li>• Data analysis</li> <li>• Creating templates</li> <li>• Creating reports</li> <li>• Exporting data</li> <li>• Triggering</li> </ul>	
Course information	
Available languages	English, French, German, other languages upon request
Target group	<ul style="list-style-type: none"> <li>• Persons interested in, or users, of the specific software.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Consultants interested in reporting</li> <li>• Building inspectors with reporting needs</li> <li>• R&amp;D staff interested in advanced data analysis</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Laptop with installed software full version or 30 day demo (download on <a href="http://www.flir.com">www.flir.com</a>)</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic knowledge about thermography and related parameters.</li> </ul>
Course details	
Duration	Depends on software.
Structure	Short system introduction, then demos and practical exercises.

**P/N: ITC-SOW-0001**

© 2015, FLIR Systems, Inc.  
#ITC-SOW-0001; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>
Course organization	
ITC	Software courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Software courses are lectured by ITC qualified instructors experienced in usage of the software being subject of the class.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)

**P/N: ITC-SOW-0001**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0001; r. 23306; en-US

- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°

**P/N: ITC-SOW-0001**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0001; r. 23306; en-US

- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-SOW-0009

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-SOW-0009  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
These courses are for users of FLIR software like FLIR Reporter Professional or FLIR ResearchIR. Please observe that content and labs depend on the software used.	
Content	
<ul style="list-style-type: none"> <li>System requirements</li> <li>Configuration</li> <li>Analyzing functions</li> <li>Templates</li> <li>Reporting functions</li> <li>Data exchange</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>System set up</li> <li>Data import</li> <li>Data analysis</li> <li>Creating templates</li> <li>Creating reports</li> <li>Exporting data</li> <li>Triggering</li> </ul>	
Course information	
Available languages	English, French, German, other languages upon request
Target group	<ul style="list-style-type: none"> <li>Persons interested in, or users, of the specific software.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Consultants interested in reporting</li> <li>Building inspectors with reporting needs</li> <li>R&amp;D staff interested in advanced data analysis</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Laptop with installed software full version or 30 day demo (download on <a href="http://www.flir.com">www.flir.com</a>)</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Basic knowledge about thermography and related parameters.</li> </ul>
Course details	
Duration	Depends on software.
Structure	Short system introduction, then demos and practical exercises.

**P/N: ITC-SOW-0009**

© 2015, FLIR Systems, Inc.  
#ITC-SOW-0009; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	Software courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Software courses are lectured by ITC qualified instructors experienced in usage of the software being subject of the class.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm

**P/N: ITC-SOW-0009**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0009; r. 23306; en-US

- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°

**P/N: ITC-SOW-0009**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0009; r. 23306; en-US

- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display



## P/N: 194176

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 194176  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The lens is a popular lens accessory and provides approximately 2× magnification compared to the standard lens. Ideal for small or distant targets such as overhead power lines.

### Imaging and optical data

Field of view (FOV)	11.7° × 8.78°/9.65° × 7.24°
Minimum focus distance	1.2 m (3.93 ft.)
Focal length	71.5 mm (28.1 in.)
Spatial resolution (IFOV)	0.64 mrad/0.53 mrad
F-number	1.0
Lens note	When two pieces of data are separated by “/” the first piece of data is for cameras with a serial number starting with 218, 234, 236 or 250 and the second piece of data is for cameras with a serial number starting with 253

### Shipping information

List of contents	<ul style="list-style-type: none"><li>• Lens</li><li>• Lens case</li></ul>
EAN-13	7332558005835
UPC-12	845188006044
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: 194401

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 194401  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This wide angle lens has a field of view almost double that of the standard 24° lens. Perfect for wide or tall targets such as electrical panels or paper machinery.

### Imaging and optical data

Field of view (FOV)	44.6° × 33.45°/37.3° × 27.97°
Minimum focus distance	0.1 m (0.32 ft.)
Focal length	18 mm (0.71 in.)
Spatial resolution (IFOV)	2.57 mrad/2.11 mrad
F-number	1.0
Lens note	When two pieces of data are separated by "/" the first piece of data is for cameras with a serial number starting with 218, 234, 236 or 250 and the second piece of data is for cameras with a serial number starting with 253

### Shipping information

List of contents	<ul style="list-style-type: none"><li>• Lens</li><li>• Lens case</li></ul>
------------------	--

### Compatible with the following products

- N/A

## P/N: 194533

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 194533  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This close-up optic attaches to the standard built-in 24° lens and provides resolution of very small targets. Ideal for integrated circuit inspection applications.

### Imaging and optical data

Field of view (FOV)	64 mm/53 mm
Minimum focus distance	115 mm
Working distance	150 mm
Depth of field	±0.9 mm
Spatial resolution (IFOV)	200 µm/166 µm
Lens note	When two pieces of data are separated by “/” the first piece of data is for cameras with a serial number starting with 218, 234, 236 or 250 and the second piece of data is for cameras with a serial number starting with 253

### Shipping information

List of contents	<ul style="list-style-type: none"><li>• Lens</li><li>• Lens case</li></ul>
------------------	--

### Compatible with the following products

- N/A

## P/N: 1194977

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1194977  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Protective window for the built-in lens. The window is made of monocrystalline fluoride.	
Physical data	
Size (L × D)	48 × 71 mm (1.89 × 2.80 in.)
Shipping information	
List of contents	<ul style="list-style-type: none"><li>Protective window</li><li>Protective window case</li></ul>
EAN-13	7332558008461
UPC-12	845188008826
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: 194560

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 194560  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

A protective plastic window for the built-in lens, suitable when the camera is used in a dusty environment or when there is a risk of liquids splashing on the lens. The plastic film is made of polyolefin.

### Physical data

Weight	0,08 kg (0.17 lbs.)
Size (L x D)	41 x 87 mm (1.61 x 3.43 in.)

### Shipping information

List of contents	<ul style="list-style-type: none"><li>Protective plastic window</li><li>Protective plastic window case</li></ul>
EAN-13	7332558009055
UPC-12	845188009595
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: 1195939

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1195939  
Commit: 23380  
Language: en-US  
Modified: 2015-02-24 14:12  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The  $7^\circ$  lens is a popular lens accessory and provides 3.5 $\times$  magnification compared to the standard lens. Ideal for small or distant targets such as overhead power lines.

### Imaging and optical data

Field of view (FOV)	6,83° $\times$ 5.12°
Minimum focus distance	4.0 m (13.11 ft.)
Focal length	124 mm (4.9 in.)
Spatial resolution (IFOV)	0.37 mrad
F-number	1.0

### Physical data

Weight	1.6 kg (3.53 lb.) incl. mechanical support
Size (L $\times$ D)	215 mm (8.46 in.) $\times$ 160.5 mm (6.32 in.)

### Shipping information

List of contents	<ul style="list-style-type: none"><li>• Lens</li><li>• Lens case</li></ul>
EAN-13	7332558009192
UPC-12	845188009731
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: 1195438

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1195438  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

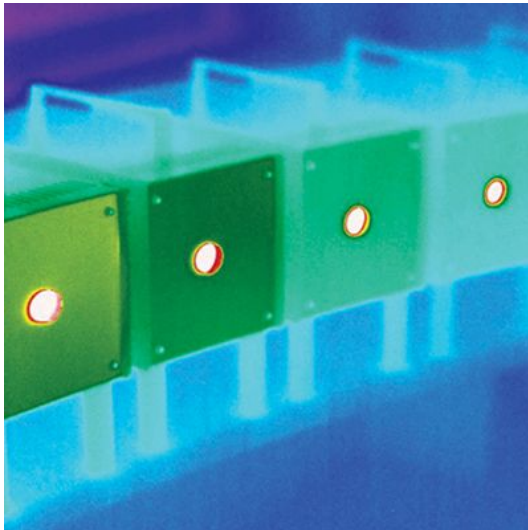
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

For high temperature applications the camera can be calibrated for high temperature ranges.

### Measurement

Optional object temperature range	Up to +1500°C (+2732°F)
-----------------------------------	-------------------------

### Compatibility

Compatible with FLIR products	ThermaCAM P25 to P65, S65, B20 and ThermoVision A40 Series
Compatible with old FLIR products	ThermaCAM S45

### Compatible with the following products

- N/A

## P/N: 1195439

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1195439  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

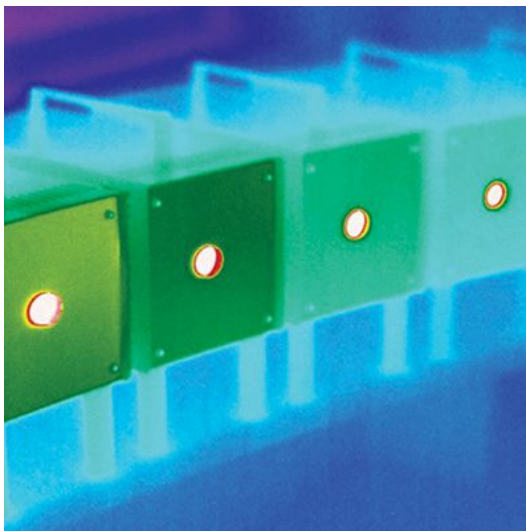
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

For high temperature applications the camera can be calibrated for high temperature ranges.

### Measurement

Optional object temperature range	Up to +2000°C (+3632°F)
-----------------------------------	-------------------------

### Compatibility

Compatible with FLIR products	ThermaCAM P25 to P65, S65, B20 and ThermoVision A40 Series
Compatible with old FLIR products	ThermaCAM S45

### Compatible with the following products

- N/A



## P/N: 1195437

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1195437  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

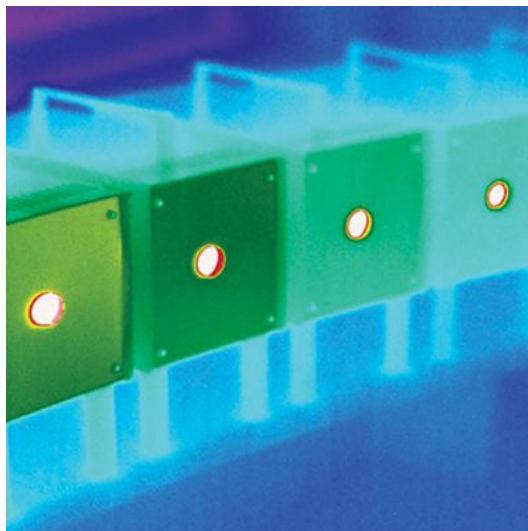
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
For high temperature applications the camera can be calibrated for high temperature ranges.	
Measurement	
Optional object temperature range	Up to +1000°C (+1832°F)
Compatibility	
Compatible with FLIR products	ThermaCAM P25 to P65, S65, B20 and ThermoVision A40 Series
Compatible with old FLIR products	ThermaCAM S45

### Compatible with the following products

- N/A

## P/N: 1910228

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1910228  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Power supply	
Power system	
AC operation	90–264 VAC, 47/63 Hz, 12 VDC ±5% output to the camera
Power	36 W
Physical data	
Size (L × W × H)	111 × 50 × 32 mm (4.4 × 2.0 × 1.3 in.)
Cable length	1.5 to 2.0 m (4.9 to 6.6 ft.)
Connector	DC cable with 2.5 mm center plug, barrel type
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009321
UPC-12	845188009854
Country of origin	Sweden

### Compatible with the following products

- N/A

## P/N: 1909529

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1909529  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

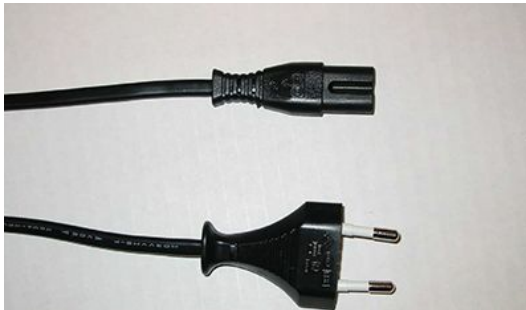
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Power cable for power supply 1910228.

250 VAC, 2.5 A.

2 poles.

Length: 1.5 to 2 m.

### Shipping information

Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009338
UPC-12	845188009861
Country of origin	Sweden

### Compatible with the following products

- N/A

**P/N: 1909530**

**Copyright**

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

**Document identity**

Publ. No.: 1909530  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

**Corporate Headquarters**

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

**Website**

<http://www.flir.com>

**Customer support**

<http://support.flir.com>

**Disclaimer**

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Power cable for Power supply 1910228.	
125 VAC, 7 A.	
2 poles.	
Length 1.5 to 2 m.	
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009345
UPC-12	845188009878
Country of origin	Sweden

**Compatible with the following products**

- N/A

## P/N: 1909531

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 1909531  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Power cable for Power supply 1910228.	
250 VAC, 2.5 A.	
2 poles.	
Length 1.5 to 2 m.	
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009352
UPC-12	845188009885
Country of origin	Sweden

### Compatible with the following products

- N/A

A photograph from our company archives



# Training

---

## P/N: ITC-FEE-0120

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-FEE-0120  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Certification DIN EN ISO 9712 TT Category 1	
Course information	
Available languages	DACH only
Course details	
Duration	1 day

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)



---

**P/N: ITC-FEE-0120**

© 2015, FLIR Systems, Inc.

#ITC-FEE-0120; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-CER-6101

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-6101  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
DIN EN ISO 9712 TT Category 1 Certification course, excl. Certification, 1 pers.	
Course information	
Available languages	DACH only
Course details	
Duration	5 days

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)

---

**P/N: ITC-CER-6101**

© 2015, FLIR Systems, Inc.

#ITC-CER-6101; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-CER-6109

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-6109  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

DIN EN ISO 9712 TT Category 1 Certification course, excl. Certification, group up to 10 pers.

### Course information

Available languages	DACH only
---------------------	-----------

### Course details

Duration	5 days
----------	--------

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)

---

**P/N: ITC-CER-6109**

© 2015, FLIR Systems, Inc.

#ITC-CER-6109; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-ADV-3011

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3011  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course bridges the gap between IR thermography, background science and application theory. The participant will learn the physical concepts of heat transfer and apply them together with relevant building science. After the course, the participant will be able to do a qualified building inspection on the base of existing laws, standards, and regulations.

Note: This course refers mainly to European building standards. Please consult ITC before selling it in other countries.

### Content

- Introduction and refresher of IR basics
- Thermal transfer and wall structures
- Insulating materials
- Humidity, moisture, and the dew point
- Air leaks, pressure profiles, and air permeability
- Survey methodology

### Labs

- Outside inspection
- Air permeability test (with Blower Door)
- Reporting

### Course information

Available languages	English
Target group	<ul style="list-style-type: none"> <li>• Professional users in building applications who want to become experts in Building Thermography.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Knows how to operate the camera</li> <li>• Knows how to report</li> <li>• Has a background in a building profession, but rather moderate experience in IR or has experience in another IR application field but rather moderate knowledge in building science</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Valid Level 1 thermography certificate</li> <li>• IR related education and experience</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Knowledge of building techniques</li> <li>• Bring own PC for calculations and exercises</li> </ul>



**P/N: ITC-ADV-3011**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3011; r. 23306; en-US

Course details	
Duration	3 days (24 hours)
Structure	Theory takes place in the mornings, practical labs, calculations, and software exercises are scheduled for the afternoons.
Exam	A final test (20 multiple choice questions) will be written on the 3rd day in the afternoon. In connection, the correct answers will be discussed by the instructor and the participants.
Course fee includes	<ul style="list-style-type: none"><li>• Tuition by ITC licensed instructor</li><li>• Training material in printed format</li><li>• Refreshments</li><li>• Diploma of attendance</li><li>• Attendance of 1 person</li><li>• Might include more, such as lunch, depending on location and organizing entity</li></ul>
Course organization	
ITC	The Advanced Building Course is offered worldwide by ITC as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC.
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach the Advanced Building Course.

**Compatible with the following products**

- N/A

## P/N: ITC-ADV-3019

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3019  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course bridges the gap between IR thermography, background science and application theory. The participant will learn the physical concepts of heat transfer and apply them together with relevant building science. After the course, the participant will be able to do a qualified building inspection on the base of existing laws, standards, and regulations.

Note: This course refers mainly to European building standards. Please consult ITC before selling it in other countries.

### Content

- Introduction and refresher of IR basics
- Thermal transfer and wall structures
- Insulating materials
- Humidity, moisture, and the dew point
- Air leaks, pressure profiles, and air permeability
- Survey methodology

### Labs

- Outside inspection
- Air permeability test (with Blower Door)
- Reporting

### Course information

Available languages	English
Target group	<ul style="list-style-type: none"> <li>• Professional users in building applications who want to become experts in Building Thermography.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Knows how to operate the camera</li> <li>• Knows how to report</li> <li>• Has a background in a building profession, but rather moderate experience in IR or has experience in another IR application field but rather moderate knowledge in building science</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Valid Level 1 thermography certificate</li> <li>• IR related education and experience</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Knowledge of building techniques</li> <li>• Bring own PC for calculations and exercises</li> </ul>



**P/N: ITC-ADV-3019**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3019; r. 23306; en-US

Course details	
Duration	3 days (24 hours)
Structure	Theory takes place in the mornings, practical labs, calculations, and software exercises are scheduled for the afternoons.
Exam	A final test (20 multiple choice questions) will be written on the 3rd day in the afternoon. In connection, the correct answers will be discussed by the instructor and the participants.
Course fee includes	<ul style="list-style-type: none"><li>• Tuition by ITC licensed instructor</li><li>• Training material in printed format</li><li>• Refreshments</li><li>• Diploma of attendance</li><li>• Attendance of a group up to 10 persons</li><li>• Might include more, such as lunch, instructor's travel expenses, etc. depending on location and organizing entity</li></ul>
Course organization	
ITC	The Advanced Building Course is offered worldwide by ITC as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC.
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach the Advanced Building Course.

**Compatible with the following products**

- N/A

## P/N: ITC-ADV-3055

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3055  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course bridges the gap between IR thermography, background science and application theory. The participant will learn fundamental concepts of heat and chemistry, to setup and to operate the furnace camera, and to adjust it for environmental conditions related to furnace applications.

Lab and/or field practice is a key part of this class. Basic inspection procedures will be covered including equipment checkout, route planning, permitting requirements, safety practices/equipment and reporting concepts.

This partnumber is reserved for adding additional students to an advanced furnace application on site class.

### Content

- Introduction
- Working environment (refineries, units, furnaces)
- General rules, camera set up and operation
- On site job organization and related procedures
- Basics of radiative thermal transfer
- Principles and limitations of IR furnace applications
- Discussion and evaluation of inspection and measurement results
- Methodology
- Reporting

### Labs

- On site job organization
- Follow the site inspection procedure
- Site measurements
- If possible, field work on-site inspecting real equipment

### Course information

Available languages	English, French
Target group	<ul style="list-style-type: none"> <li>• Users of FLIR furnace cameras such as the FLIR GF309.</li> <li>• Users of models like AGEMA 550, Inframetrics 290/390, FLIR ThermoCAM P25F/P50F</li> <li>• Qualified thermographers who want to learn more about furnace applications</li> <li>• Non thermographers who want to learn how to use GF cameras or other cameras suited for furnace applications for measurements in their industry</li> </ul>

**P/N: ITC-ADV-3055**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3055; r. 23306; en-US

Course information	
Typical student	<ul style="list-style-type: none"> <li>A person working with furnace applications in the industry and/or with surveillance and/or predictive maintenance and rather moderate knowledge on IR thermography or</li> <li>A person from another IR application field, with rather moderate knowledge about furnace applications and not too much experience of GF cameras.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Basic understanding and knowledge of natural sciences</li> <li>Technical background</li> </ul>
Course details	
Duration	3 days, additional days upon request (ITC-ADV-4006)
Structure	Theory classes with integrated hands-on during day one and the morning of day two and three, practical labs respective exam in the afternoon of day two and three.
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>
Note	This course can only be booked via ITC due to the FLIR GF camera export restrictions.
Course organization	
ITC	The ITC Advanced Furnace Application Course is offered worldwide by ITC subsidiaries. Specific customer requests shall be forwarded to the closest ITC subsidiary.
ITC Trainers and Licensed Trainers	The ITC Advanced Furnace Application is lectured by qualified ITC trainers with special expertise in handling the GF cameras and furnace applications.

**Compatible with the following products**

- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens

## P/N: ITC-ADV-3051

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3051  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course bridges the gap between IR thermography, background science and application theory. The participant will learn fundamental concepts of heat and chemistry, to setup and to operate the furnace camera, and to adjust it for environmental conditions related to furnace applications.

Lab and/or field practice is a key part of this class. Basic inspection procedures will be covered including equipment checkout, route planning, permitting requirements, safety practices/equipment and reporting concepts.

### Content

- Introduction
- Working environment (refineries, units, furnaces)
- General rules, camera set up and operation
- On site job organization and related procedures
- Basics of radiative thermal transfer
- Principles and limitations of IR furnace applications
- Discussion and evaluation of inspection and measurement results
- Methodology
- Reporting

### Labs

- On site job organization
- Follow the site inspection procedure
- Site measurements
- If possible, field work on-site inspecting real equipment

### Course information

Available languages	English, French
Target group	<ul style="list-style-type: none"> <li>• Users of FLIR furnace cameras such as the FLIR GF309.</li> <li>• Users of models like AGEMA 550, Inframetrics 290/390, FLIR ThermoCAM P25F/P50F</li> <li>• Qualified thermographers who want to learn more about furnace applications</li> <li>• Non thermographers who want to learn how to use GF cameras or other cameras suited for furnace applications for measurements in their industry</li> </ul>

**P/N: ITC-ADV-3051**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3051; r. 23306; en-US

Course information	
Typical student	<ul style="list-style-type: none"> <li>A person working with furnace applications in the industry and/or with surveillance and/or predictive maintenance and rather moderate knowledge on IR thermography or</li> <li>A person from another IR application field, with rather moderate knowledge about furnace applications and not too much experience of GF cameras.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Basic understanding and knowledge of natural sciences</li> <li>Technical background</li> </ul>
Course details	
Duration	3 days, additional days upon request (ITC-ADV-4006)
Structure	Theory classes with integrated hands-on during day one and the morning of day two and three, practical labs respective exam in the afternoon of day two and three.
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>
Note	This course can only be booked via ITC due to the FLIR GF camera export restrictions.
Course organization	
ITC	The ITC Advanced Furnace Application Course is offered worldwide by ITC subsidiaries. Specific customer requests shall be forwarded to the closest ITC subsidiary.
ITC Trainers and Licensed Trainers	The ITC Advanced Furnace Application is lectured by qualified ITC trainers with special expertise in handling the GF cameras and furnace applications.

**Compatible with the following products**

- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens

## P/N: ITC-ADV-3059

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3059  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

ITC Advanced Furnace Applications Course - group up to 10 pers. (3 days)

### Course details

Duration	3 days
----------	--------

### Compatible with the following products

- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens

## P/N: ITC-ADV-3056

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3056  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course bridges the gap between IR thermography, background science and application theory. The participant will learn fundamental concepts of heat and chemistry, to setup and to operate the furnace camera, and to adjust it for environmental conditions related to furnace applications.

Lab and/or field practice is a key part of this class. Basic inspection procedures will be covered including equipment checkout, route planning, permitting requirements, safety practices/equipment and reporting concepts.

### Content

- Introduction
- Working environment (refineries, units, furnaces)
- General rules, camera set up and operation
- On site job organization and related procedures
- Basics of radiative thermal transfer
- Principles and limitations of IR furnace applications
- Discussion and evaluation of inspection and measurement results
- Methodology
- Reporting

### Labs

- On site job organization
- Follow the site inspection procedure
- Site measurements
- If possible, field work on-site inspecting real equipment

### Course information

Available languages	English, French
Target group	<ul style="list-style-type: none"> <li>• Users of FLIR furnace cameras such as the FLIR GF309.</li> <li>• Users of models like AGEMA 550, Inframetrics 290/390, FLIR ThermoCAM P25F/P50F</li> <li>• Qualified thermographers who want to learn more about furnace applications</li> <li>• Non thermographers who want to learn how to use GF cameras or other cameras suited for furnace applications for measurements in their industry</li> </ul>

**P/N: ITC-ADV-3056**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3056; r. 23306; en-US

Course information	
Typical student	<ul style="list-style-type: none"> <li>A person working with furnace applications in the industry and/or with surveillance and/or predictive maintenance and rather moderate knowledge on IR thermography or</li> <li>A person from another IR application field, with rather moderate knowledge about furnace applications and not too much experience of GF cameras.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Basic understanding and knowledge of natural sciences</li> <li>Technical background</li> </ul>
Course details	
Duration	3 days, additional days upon request (ITC-ADV-4006)
Structure	Theory classes with integrated hands-on during day one and the morning of day two and three, practical labs respective exam in the afternoon of day two and three.
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>ITC qualified instructor teaching the class</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 6 persons</li> <li>Might include more, such as lunch, refreshments, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Note	This course can only be booked via ITC due to the FLIR GF camera export restrictions.
Course organization	
ITC	The ITC Advanced Furnace Application Course is offered worldwide by ITC subsidiaries. Specific customer requests shall be forwarded to the closest ITC subsidiary.
ITC Trainers and Licensed Trainers	The ITC Advanced Furnace Application is lectured by qualified ITC trainers with special expertise in handling the GF cameras and furnace applications.

**Compatible with the following products**

- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens



## P/N: ITC-ADV-3035

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3035  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course bridges the gap between IR thermography, background science and application theory. The participant will learn fundamental concepts of heat and chemistry, to setup and to operate the GasFindIR camera, and to adjust it for environmental conditions to find gas leaks.

Lab and/or field practice in finding leaks is a key part of this class. Basic inspection procedures will be covered including equipment checkout, route planning, permitting requirements, safety practices/equipment and reporting concepts. After the course, the participant will be able to do qualified inspections on the base of existing laws, standards, and regulations.

Note 1: This course can only be booked via ITC due to the GasFindIR camera export restrictions. Please inform ITC if the customer has an MW or LW GasFindIR camera.

Note 2: This partnumber is reserved for adding additional students to a gas detection on site class.

### Content

- Introduction
- Camera set up and operation
- Thermal science fundamentals
- Heat transfer
- IR theory
- VOC absorption characteristics
- Survey and reporting
- Safety considerations

### Labs

- Hands-on and practical exercises during the afternoon of day 2.
- If possible, field work on-site inspecting real equipment, if not exercises on ITC's special tailored GasFindIR lab equipment.

**P/N: ITC-ADV-3035**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3035; r. 23306; en-US

Course information	
Available languages	English
Target group	<ul style="list-style-type: none"> <li>• Qualified thermographers who want to learn more about the special application volatile gas detection within the petrochemical industry with an IR MW camera.</li> <li>• Non thermographers who want to learn how to use their GasFindIR MW camera to complement or replace existing LDAR (Leak Detection And Repair) techniques in the petrochemical industry.</li> <li>• Qualified thermographers who want to learn more about the special application volatile gas detection for surveillance of electrical equipment with an IR LW camera.</li> <li>• Non thermographers who want to learn how to use their GasFindIR LW camera to complement or replace existing LDAR (Leak Detection And Repair) techniques.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person working in the petrochemical industry with surveillance and/or predictive maintenance and rather moderate knowledge on IR thermography or</li> <li>• a person working with surveillance and/or predictive maintenance of electrical equipment and rather moderate knowledge on IR thermography or</li> <li>• a person from another IR application field, with rather moderate knowledge about VOC gases and not too much experience of the specific GasFindIR camera.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Basic understanding and knowledge of natural sciences</li> <li>• Technical background</li> </ul>

Course details	
Duration	3 days (20 hours)
Structure	Theory classes with integrated hands-on during day one and the morning of day two and three, practical labs respective exam in the afternoon of day two and three.
Exam	A final exam (30 multiple choice questions) will be written on the 3d day in the afternoon. In connection, the correct answers will be discussed by the instructor and the participants.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Attendance of 1 person</li> <li>• Might include more, such as lunch, depending on location and organizing entity</li> </ul>
Note	Only for non-EURO, non-SEK, non NOK, non- £, -non CHF countries

Course organization	
ITC	The Advanced Gas Detection Course is offered worldwide by ITC subsidiaries as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary.
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Advanced Gas Detection Courses.

**Compatible with the following products**

- 44401-0201; FLIR GF300 14.5°

---

**P/N: ITC-ADV-3035**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3035; r. 23306; en-US

- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 24059-250; ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II PAL
- 24059-201; ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II NTSC
- 24059-251; ThermaCAM™ GasFindIR 25 mm lens Class I Div II PAL
- 24059-200; ThermaCAM™ GasFindIR 25 mm lens Class I Div II NTSC

## P/N: ITC-ADV-3031

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3031  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course bridges the gap between IR thermography, background science and application theory. The participant will learn fundamental concepts of heat and chemistry, to setup and to operate the GasFindIR camera, and to adjust it for environmental conditions to find gas leaks.

Lab and/or field practice in finding leaks is a key part of this class. Basic inspection procedures will be covered including equipment checkout, route planning, permitting requirements, safety practices/equipment and reporting concepts. After the course, the participant will be able to do qualified inspections on the base of existing laws, standards, and regulations.

Note: This course can only be booked via ITC due to the GasFindIR camera export restrictions. Please inform ITC if the customer has an MW or LW GasFindIR camera.

### Content

- Introduction
- Camera set up and operation
- Thermal science fundamentals
- Heat transfer
- IR theory
- VOC absorption characteristics
- Survey and reporting
- Safety considerations

### Labs

- Hands-on and practical exercises during the afternoon of day 2.
- If possible, field work on-site inspecting real equipment, if not exercises on ITC's special tailored GasFindIR lab equipment.

**P/N: ITC-ADV-3031**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3031; r. 23306; en-US

Course information	
Available languages	English
Target group	<ul style="list-style-type: none"> <li>Qualified thermographers who want to learn more about the special application volatile gas detection within the petrochemical industry with an IR MW camera.</li> <li>Non thermographers who want to learn how to use their GasFindIR MW camera to complement or replace existing LDAR (Leak Detection And Repair) techniques in the petrochemical industry.</li> <li>Qualified thermographers who want to learn more about the special application volatile gas detection for surveillance of electrical equipment with an IR LW camera.</li> <li>Non thermographers who want to learn how to use their GasFindIR LW camera to complement or replace existing LDAR (Leak Detection And Repair) techniques.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>A person working in the petrochemical industry with surveillance and/or predictive maintenance and rather moderate knowledge on IR thermography or</li> <li>a person working with surveillance and/or predictive maintenance of electrical equipment and rather moderate knowledge on IR thermography or</li> <li>a person from another IR application field, with rather moderate knowledge about VOC gases and not too much experience of the specific GasFindIR camera.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Basic understanding and knowledge of natural sciences</li> <li>Technical background</li> </ul>
Course details	
Duration	3 days (20 hours)
Structure	Theory classes with integrated hands-on during day one and the morning of day two and three, practical labs respective exam in the afternoon of day two and three.
Exam	A final exam (30 multiple choice questions) will be written on the 3d day in the afternoon. In connection, the correct answers will be discussed by the instructor and the participants.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Attendance of 1 person</li> <li>Might include more, such as lunch, depending on location and organizing entity</li> </ul>
Course organization	
ITC	The Advanced Gas Detection Course is offered worldwide by ITC subsidiaries as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary.
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Advanced Gas Detection Courses.

**Compatible with the following products**

- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°

---

**P/N: ITC-ADV-3031**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3031; r. 23306; en-US

- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 24059-250; ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II PAL
- 24059-201; ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II NTSC
- 24059-251; ThermaCAM™ GasFindIR 25 mm lens Class I Div II PAL
- 24059-200; ThermaCAM™ GasFindIR 25 mm lens Class I Div II NTSC

## P/N: ITC-ADV-3039

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3039  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course bridges the gap between IR thermography, background science and application theory. The participant will learn fundamental concepts of heat and chemistry, to setup and to operate the GasFindIR camera, and to adjust it for environmental conditions to find gas leaks.

Lab and/or field practice in finding leaks is a key part of this class. Basic inspection procedures will be covered including equipment checkout, route planning, permitting requirements, safety practices/equipment and reporting concepts. After the course, the participant will be able to do qualified inspections on the base of existing laws, standards, and regulations.

Note: This course can only be booked via ITC due to the GasFindIR camera export restrictions. Please inform ITC if the customer has an MW or LW GasFindIR camera.

### Content

- Introduction
- Camera set up and operation
- Thermal science fundamentals
- Heat transfer
- IR theory
- VOC absorption characteristics
- Survey and reporting
- Safety considerations

### Labs

- Hands-on and practical exercises during the afternoon of day 2.
- If possible, field work on-site inspecting real equipment, if not exercises on ITC's special tailored GasFindIR lab equipment.

**P/N: ITC-ADV-3039**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3039; r. 23306; en-US

Course information	
Available languages	English
Target group	<ul style="list-style-type: none"> <li>• Qualified thermographers who want to learn more about the special application volatile gas detection within the petrochemical industry with an IR MW camera.</li> <li>• Non thermographers who want to learn how to use their GasFindIR MW camera to complement or replace existing LDAR (Leak Detection And Repair) techniques in the petrochemical industry.</li> <li>• Qualified thermographers who want to learn more about the special application volatile gas detection for surveillance of electrical equipment with an IR LW camera.</li> <li>• Non thermographers who want to learn how to use their GasFindIR LW camera to complement or replace existing LDAR (Leak Detection And Repair) techniques.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person working in the petrochemical industry with surveillance and/or predictive maintenance and rather moderate knowledge on IR thermography or</li> <li>• a person working with surveillance and/or predictive maintenance of electrical equipment and rather moderate knowledge on IR thermography or</li> <li>• a person from another IR application field, with rather moderate knowledge about VOC gases and not too much experience of the specific GasFindIR camera.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Basic understanding and knowledge of natural sciences</li> <li>• Technical background</li> </ul>
Course details	
Duration	3 days (20 hours)
Structure	Theory classes with integrated hands-on during day one and the morning of day two and three, practical labs respective exam in the afternoon of day two and three.
Exam	A final exam (30 multiple choice questions) will be written on the 3d day in the afternoon. In connection, the correct answers will be discussed by the instructor and the participants.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Attendance of a group up to 10 persons</li> <li>• Might include more, such as lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	The Advanced Gas Detection Course is offered worldwide by ITC subsidiaries as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary.
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Advanced Gas Detection Courses.

**Compatible with the following products**

- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens



**P/N: ITC-ADV-3039**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3039; r. 23306; en-US

- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 24059-250; ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II PAL
- 24059-201; ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II NTSC
- 24059-251; ThermaCAM™ GasFindIR 25 mm lens Class I Div II PAL
- 24059-200; ThermaCAM™ GasFindIR 25 mm lens Class I Div II NTSC

## P/N: ITC-ADV-3036

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3036  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course bridges the gap between IR thermography, background science and application theory. The participant will learn fundamental concepts of heat and chemistry, to setup and to operate the GasFindIR/FLIR GF3xx camera, and to adjust it for environmental conditions to find gas leaks.

Lab and/or field practice in finding leaks is a key part of this class. Basic inspection procedures will be covered including equipment checkout, route planning, permitting requirements, safety practices/equipment and reporting concepts. After the course, the participant will be able to do qualified inspections on the base of existing laws, standards, and regulations.

### Content

- Introduction
- Camera set up and operation
- Thermal science fundamentals
- Heat transfer
- IR theory
- VOC absorption characteristics
- Survey and reporting
- Safety considerations

### Labs

- Hands-on and practical exercises during the afternoon of day 2.
- If possible, field work on-site inspecting real equipment, if not exercises on ITC's special tailored gas detection lab equipment.

**P/N: ITC-ADV-3036**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3036; r. 23306; en-US

Course information	
Available languages	English, French
Target group	<ul style="list-style-type: none"> <li>Qualified thermographers who want to learn more about the special application volatile gas detection within the petrochemical industry with an infrared MW camera.</li> <li>Non thermographers who want to learn how to use their GasFindIR or FLIR GF MW camera to complement or replace existing LDAR (Leak Detection And Repair) techniques in the petrochemical industry.</li> <li>Qualified thermographers who want to learn more about the special application volatile gas detection for surveillance of electrical equipment with an infrared LW camera.</li> <li>Non thermographers who want to learn how to use their GasFindIR or FLIR GF LW camera to complement or replace existing LDAR (Leak Detection And Repair) techniques.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>A person working in the petrochemical industry with surveillance and/or predictive maintenance and rather moderate knowledge on IR thermography or</li> <li>A person working with surveillance and/or predictive maintenance of electrical equipment and rather moderate knowledge on IR thermography or</li> <li>A person from another IR application field, with rather moderate knowledge about VOC gases and not too much experience of the specific GasFindIR or FLIR GF3xx camera.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Basic understanding and knowledge of natural sciences</li> <li>Technical background</li> </ul>
Course details	
Duration	3 days, additional days upon request (ITC-ADV-4006)
Structure	Theory classes with integrated hands-on during day one and the morning of day two and three, practical labs respective exam in the afternoon of day two and three.
Exam	A final exam (30 multiple choice questions) will be written on the 3d day in the afternoon. In connection, the correct answers will be discussed by the instructor and the participants.
Course fee includes	<ul style="list-style-type: none"> <li>ITC licensed instructor teaching the class</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Might include more, such as lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Note	This course can only be booked via ITC due to the GasFindIR and GF camera export restrictions. Please inform ITC if the customer has an MW or LW GasFindIR or GF camera.
Course organization	
ITC	The ITC Advanced Gas Detection Course is offered worldwide by ITC subsidiaries. Specific customer requests shall be forwarded to the closest ITC subsidiary.
ITC Trainers and Licensed Trainers	T560392 Trainers teaching courses lists all licensed trainers and ITC trainers authorized to teach the ITC Advanced Gas Detection Courses.

---

**P/N: ITC-ADV-3036**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3036; r. 23306; en-US

**Compatible with the following products**

- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 24059-250; ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II PAL
- 24059-201; ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II NTSC
- 24059-251; ThermaCAM™ GasFindIR 25 mm lens Class I Div II PAL
- 24059-200; ThermaCAM™ GasFindIR 25 mm lens Class I Div II NTSC

## P/N: ITC-ADV-3021

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3021  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This interdisciplinary course bridges the gap between IR thermography, background science and application theory. Being an overview course it deals with three main application fields of thermography: electrical, industrial, and building. For every application the participant will learn about the specific theory, typical faults, and how to detect them with a thermography camera. The student will also learn about the basics of condition monitoring, and maintenance.

Examples and case studies from the real world illustrate the course content and are discussed with the participants. Participants will be trained in discovering and identifying typical faults by typical thermal patterns.

### Content

- Introduction
- Electrical Applications (current, voltage, resistance, electrical systems, Ohm's law, some important properties of materials, typical faults, surveying methodology and criteria, safety, voltage limits)
- Industrial Applications (bearings, pumps, gears, belts, misalignment and couplings, gaskets, seals, rings, glands, steam traps, furnaces)
- Building Applications (definition of the building envelope, steady state thermal transfer in a building envelope, transient thermal transfer in a building envelope, applications)

### Course information

Available languages	
English	
Target group	
<ul style="list-style-type: none"> <li>• Professional thermographers holding a Level 1 or a Level 2 certificate and</li> <li>• with interest in increasing their knowledge of different thermographic applications, and their limitations or</li> <li>• with a special interest in condition monitoring of machines</li> </ul>	
Typical student	
<ul style="list-style-type: none"> <li>• Knows how to operate the camera</li> <li>• Knows how to report</li> <li>• Works in the industry with e.g. maintenance and condition monitoring or is a consultant</li> </ul>	
Pre-requisites	
<ul style="list-style-type: none"> <li>• Valid Level 1 thermography certificate</li> <li>• IR related education and experience</li> </ul>	

**P/N: ITC-ADV-3021**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3021; r. 23306; en-US

Course details	
Duration	3 days (24 hours)
Structure	The course is divided into the three parts: Electrical Applications, Industrial Applications, and Building Applications. Theory sessions and case studies including interactive discussions alternate.
Exam	A final exam (30 multiple choice questions) will be written on the 3d day in the afternoon. In connection, the correct answers will be discussed by the instructor and the participants.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Attendance of 1 person</li> <li>• Might include more, such as lunch, depending on location and organizing entity</li> </ul>
Course organization	
ITC	The Advanced General Thermography Course is offered worldwide by ITC as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary.
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Advanced General Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)

**P/N: ITC-ADV-3021**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3021; r. 23306; en-US

- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC

---

**P/N: ITC-ADV-3021**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3021; r. 23306; en-US

- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°



## P/N: ITC-ADV-3029

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3029  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This interdisciplinary course bridges the gap between IR thermography, background science and application theory. Being an overview course it deals with three main application fields of thermography: electrical, industrial, and building. For every application the participant will learn about the specific theory, typical faults, and how to detect them with a thermography camera. The student will also learn about the basics of condition monitoring, and maintenance.

Examples and case studies from the real world illustrate the course content and are discussed with the participants. Participants will be trained in discovering and identifying typical faults by typical thermal patterns.

### Content

- Introduction
- Electrical Applications (current, voltage, resistance, electrical systems, Ohm's law, some important properties of materials, typical faults, surveying methodology and criteria, safety, voltage limits)
- Industrial Applications (bearings, pumps, gears, belts, misalignment and couplings, gaskets, seals, rings, glands, steam traps, furnaces)
- Building Applications (definition of the building envelope, steady state thermal transfer in a building envelope, transient thermal transfer in a building envelope, applications)

### Course information

Available languages	
English	
Target group	
<ul style="list-style-type: none"> <li>• Professional thermographers holding a Level 1 or a Level 2 certificate and</li> <li>• with interest in increasing their knowledge of different thermographic applications, and their limitations or</li> <li>• with a special interest in condition monitoring of machines</li> </ul>	
Typical student	
<ul style="list-style-type: none"> <li>• Knows how to operate the camera</li> <li>• Knows how to report</li> <li>• Works in the industry with e.g. maintenance and condition monitoring or is a consultant</li> </ul>	
Pre-requisites	
<ul style="list-style-type: none"> <li>• Valid Level 1 thermography certificate</li> <li>• IR related education and experience</li> </ul>	

**P/N: ITC-ADV-3029**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3029; r. 23306; en-US

Course details	
Duration	3 days (24 hours)
Structure	The course is divided into the three parts: Electrical Applications, Industrial Applications, and Building Applications. Theory sessions and case studies including interactive discussions alternate.
Exam	A final exam (30 multiple choice questions) will be written on the 3d day in the afternoon. In connection, the correct answers will be discussed by the instructor and the participants.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Attendance of a group up to 10 persons</li> <li>• Might include more, such as lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	The Advanced General Thermography Course is offered worldwide by ITC as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary.
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Advanced General Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)

**P/N: ITC-ADV-3029**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3029; r. 23306; en-US

- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL

---

**P/N: ITC-ADV-3029**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3029; r. 23306; en-US

- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-ADV-3061

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3061  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
ITC Advanced Thermal applications course - attendance 1 pers. (3 days)	
Course information	
Available languages	DACH only
Course details	
Duration	3 days

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)

**P/N: ITC-ADV-3061**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3061; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°



---

**P/N: ITC-ADV-3061**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3061; r. 23306; en-US

- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-ADV-3069

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3069  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
ITC Advanced Thermal applications course - group up to 10 pers. (3 days)	
Course information	
Available languages	DACH only
Course details	
Duration	3 days

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)



**P/N: ITC-ADV-3069**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3069; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°



---

**P/N: ITC-ADV-3069**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3069; r. 23306; en-US

- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-ADV-3041

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3041  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The core part (2 days) consists of lectures on theoretical subjects, plus hands-on. Additional days can be booked (ITC-ADV-3006). After a general review of heat and heat transfer, the participants will learn about radiative heat transfer. Starting with the standard measurement situation they will learn about the importance of emissivity and reflected apparent temperature. The participants will compute and estimate emissivity and do compensation for the reflected apparent temperature. They will also learn about calibration and Hypercal. Depending on the needs of the audience and the time available, additional topics to be covered can be measurement through windows, measurable figures of merit, signal generation, the influence of integration time, ROIC, etc., triggering and synchronization, and NUC and Bad Pixel Replacement.

### Content

- Introduction
- Review on thermal transfer
- Radiative heat transfer
- What does a camera see? Definition of a standard measurement situation
- Computing the emissivity. Estimating emissivity and T<sub>Refl</sub> (with practice)
- From radiation to signal
- Measurable figure of merits (with practice)
- Triggering and synchronization (additional content, upon request, with practice)
- Measuring through a window (additional content, upon request, with practice)
- Calibration (additional content, upon request, with practice)
- Spectral filters (additional content, upon request, with practice)
- NUC and Bad Pixels replacement (additional content, upon request, with practice)
- Transient, Lock-in and Pulse, basics of NDT (additional content, upon request)

### Labs

- Practice according to content listed above

### Course information

Available languages	English, other languages upon request
Target group	<ul style="list-style-type: none"> <li>• Users of FLIR cooled thermal cameras and systems (cameras connected to a PC with e.g. the software programs Altair, AltairLI or Thesa).</li> <li>• Users of un-cooled thermal cameras with interest in advanced thermal measurement applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Laboratory and industry technical personnel</li> <li>• Researchers and scientists</li> <li>• University students</li> <li>• Persons working with NDT</li> </ul>

**P/N: ITC-ADV-3041**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3041; r. 23306; en-US

Course information	
Pre-requisites	<ul style="list-style-type: none"> <li>None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Basic knowledge about thermography and related parameters.</li> <li>Experience in measurement techniques and general software skills.</li> </ul>
Course details	
Duration	Standard: 2 days (in succession or separate) Upon request: Additional day including complementary topics (ITC-ADV-3006) Upon request: 1 day only (for experienced users with sufficient theoretical background)
Structure	Theory and hands-on
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training and/or reference material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as lunch or refreshments, depending on location and the organizing entity</li> </ul>
Note	This is normally an on-site course organized at a customer's facility. For open classes, please contact your closest ITC, ITC partner or FLIR sales representative.
Course organization	
ITC	The course "ITC Advanced Thermal Measurements (R&D)" is offered by ITC direct operations in EMEA. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The course "ITC Advanced Thermal Measurements (R&D)" is delivered by ITC qualified instructors having the relevant expertise in advanced thermal measurement, infrared applications, and the use of the camera equipment including software programs.

**Compatible with the following products**

- 42901-1001; FLIR A305sc
- 48001-1001; FLIR A325sc
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-ADV-3046

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3046  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The core part (2 days) consists of lectures on theoretical subjects, plus hands-on. Additional days can be booked (ITC-ADV-3006). After a general review of heat and heat transfer, the participants will learn about radiative heat transfer. Starting with the standard measurement situation they will learn about the importance of emissivity and reflected apparent temperature. The participants will compute and estimate emissivity and do compensation for the reflected apparent temperature. They will also learn about calibration and Hypercal. Depending on the needs of the audience and the time available, additional topics to be covered can be measurement through windows, measurable figures of merit, signal generation, the influence of integration time, ROIC, etc., triggering and synchronization, and NUC and Bad Pixel Replacement.

### Content

- Introduction
- Review on thermal transfer
- Radiative heat transfer
- What does a camera see? Definition of a standard measurement situation
- Computing the emissivity. Estimating emissivity and T<sub>Refl</sub> (with practice)
- From radiation to signal
- Measurable figure of merits (with practice)
- Triggering and synchronization (additional content, upon request, with practice)
- Measuring through a window (additional content, upon request, with practice)
- Calibration (additional content, upon request, with practice)
- Spectral filters (additional content, upon request, with practice)
- NUC and Bad Pixels replacement (additional content, upon request, with practice)
- Transient, Lock-in and Pulse, basics of NDT (additional content, upon request)

### Labs

- Practice according to content listed above

### Course information

Available languages	English, other languages upon request
Target group	<ul style="list-style-type: none"> <li>• Users of FLIR cooled thermal cameras and systems (cameras connected to a PC with e.g. the software programs Altair, AltairLI or Thesa).</li> <li>• Users of un-cooled thermal cameras with interest in advanced thermal measurement applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Laboratory and industry technical personnel</li> <li>• Researchers and scientists</li> <li>• University students</li> <li>• Persons working with NDT</li> </ul>

**P/N: ITC-ADV-3046**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3046; r. 23306; en-US

Course information	
Pre-requisites	<ul style="list-style-type: none"> <li>None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Basic knowledge about thermography and related parameters.</li> <li>Experience in measurement techniques and general software skills.</li> </ul>
Course details	
Duration	Standard: 2 days (in succession or separate) Upon request: Additional day including complementary topics (ITC-ADV-3006) Upon request: 1 day only (for experienced users with sufficient theoretical background)
Structure	Theory and hands-on
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training and/or reference material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 6 persons</li> <li>Might include more, such as lunch, refreshments, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Note	This is normally an on-site course organized at a customer's facility. The fee does not include costs for instructor's travelling or lodging. The customer is responsible for providing access to the equipment or objects that should be analyzed or measured, a suitable meeting room, and preferably also refreshments/lunch.
Course organization	
ITC	The course "ITC Advanced Thermal Measurements (R&D)" is offered by ITC direct operations in EMEA. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The course "ITC Advanced Thermal Measurements (R&D)" is delivered by ITC qualified instructors having the relevant expertise in advanced thermal measurement, infrared applications, and the use of the camera equipment including software programs.

**Compatible with the following products**

- 42901-1001; FLIR A305sc
- 48001-1001; FLIR A325sc
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-ADV-3006

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-3006  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
An additional day can be booked when the customer wants to extend the training content, software exercises or guided field practice.	
The third day can be added to the following courses: ITC-ADV-3046	
Content	
<ul style="list-style-type: none"> <li>Customized, build on the topics of the course prior to the additional day</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized, depending on the equipment used and the application of interest</li> </ul>	
Course information	
Available languages	English, other languages upon demand
Target group	<ul style="list-style-type: none"> <li>Participants of advanced courses that are delivered on-site</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with special interests in the equipment and their application requesting in-depth training or additional guidance.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Please refer to the pre-requisites of the course prior to the additional day</li> </ul>
Course details	
Duration	1 day
Structure	Customized upon the customer's request
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>ITC qualified instructor teaching the class</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 6 persons</li> <li>Might include more, such as lunch, refreshments, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>



**P/N: ITC-ADV-3006**

© 2015, FLIR Systems, Inc.

#ITC-ADV-3006; r. 23306; en-US

Course organization	
ITC	Additional days are offered by the ITC or ITC partner arranging the respective standard class prior to the additional day. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Additional days are normally lectured by the same ITC trainers lecturing the standard class prior to the additional day.

**Compatible with the following products**

- 42901-1001; FLIR A305sc
- 48001-1001; FLIR A325sc
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°



## P/N: ITC-ADV-4006

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-ADV-4006  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

An additional day can be booked when the customer wants to extend the training content, software exercises or guided field practice.

The fourth day can be added to the following courses:

ITC-ADV-3036

ITC-ADV-3056

### Content

- Customized, build on the topics of the course prior to the additional day

### Labs

- Customized, depending on the equipment used and the application of interest

### Course information

Available languages	English, other languages upon demand
Target group	<ul style="list-style-type: none"> <li>• Participants of advanced courses that are delivered on-site</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Persons with special interests in the equipment and their application requesting in-depth training or additional guidance.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Please refer to the pre-requisites of the course prior to the additional day</li> </ul>

### Course details

Duration	1 day
Structure	Customized upon the customer's request
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>• ITC qualified instructor teaching the class</li> <li>• Training material in printed format</li> <li>• Diploma of attendance</li> <li>• Attendance of a group up to 6 persons</li> <li>• Might include more, such as lunch, refreshments, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>

**P/N: ITC-ADV-4006**

© 2015, FLIR Systems, Inc.

#ITC-ADV-4006; r. 23306; en-US

Course organization	
ITC	Additional days are offered by the ITC or ITC partner arranging the respective standard class prior to the additional day. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Additional days are normally lectured by the same ITC trainers lecturing the standard class prior to the additional day.

**Compatible with the following products**

- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 24059-250; ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II PAL
- 24059-201; ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II NTSC
- 24059-251; ThermaCAM™ GasFindIR 25 mm lens Class I Div II PAL
- 24059-200; ThermaCAM™ GasFindIR 25 mm lens Class I Div II NTSC

## P/N: ITC-AUT-3101

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-AUT-3101  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

ITC Automated safety systems training - attendance 1 pers (3 days)

### Course details

Duration	3 days
Note	For FLIR distributors and integrators only

### Compatible with the following products

- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC



---

**P/N: ITC-AUT-3101**

© 2015, FLIR Systems, Inc.

#ITC-AUT-3101; r. 23306; en-US

- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL

## P/N: ITC-AUT-3109

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-AUT-3109  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

ITC Automated safety systems training - group of up to 10 pers (3 days)

### Course details

Duration	3 days
Note	For FLIR distributors and integrators only

### Compatible with the following products

- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC



---

**P/N: ITC-AUT-3109**

© 2015, FLIR Systems, Inc.

#ITC-AUT-3109; r. 23306; en-US

- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL

## P/N: ITC-CON-1001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CON-1001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

ITC conference fee

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)



**P/N: ITC-CON-1001**

© 2015, FLIR Systems, Inc.

#ITC-CON-1001; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC



**P/N: ITC-CON-1001**

© 2015, FLIR Systems, Inc.

#ITC-CON-1001; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-EXP-1041

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1041  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
This is a special day emphasizing on specifications of equipment towards the particularities of applications (for instance triggering or high speed). It addresses mainly the needs of high-end camera users in the scientific or industrial fields.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, French, other languages upon request
Target group	<ul style="list-style-type: none"> <li>Highly specialized users with advanced and scientific applications as well as persons interested in these applications and related infrared equipment.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Researchers</li> <li>Scientists</li> <li>University students</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Basic knowledge about thermography and related parameters.</li> <li>Experience in measurement techniques and general software skills.</li> </ul>
Course details	
Duration	Typically 1 day
Structure	Theory and hands-on, depending on topics
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material</li> <li>Diploma of attendance</li> </ul>
Note	This course is typically organized at the customer's site. Course fee does not include cost for instructor's travelling or lodging. The customer is responsible for providing a suitable classroom and preferably also refreshments/lunch.

**P/N: ITC-EXP-1041**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1041; r. 23306; en-US

Course organization	
ITC	ITC customized workshops are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	ITC customized workshops are lectured by ITC qualified specialists having the relevant expertise in the workshop's subject and the related fields of application.

**Compatible with the following products**

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC

**P/N: ITC-EXP-1041**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1041; r. 23306; en-US

- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

## P/N: ITC-EXP-0511

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-0511  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
ITC Getting Started with Thermography - attendance, 1 pers.	
Course information	
Available languages	DE, FR, IT, NL, SE
Course details	
Duration	4 hours

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)



---

**P/N: ITC-EXP-0511**

© 2015, FLIR Systems, Inc.

#ITC-EXP-0511; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-EXP-0521

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-0521  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

ITC Getting Started with Thermography (evening or weekend) - attendance, 1 pers.

### Course information

Available languages	DE, FR, IT, NL, SE
---------------------	--------------------

### Course details

Duration	4 hours
----------	---------

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)

---

**P/N: ITC-EXP-0521**

© 2015, FLIR Systems, Inc.

#ITC-EXP-0521; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5



## P/N: ITC-EXP-1050

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1050  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Consultancy can be described as any action or arrangement that is not strictly a training course. Most likely, a thermal camera will be involved. It can be, but is not restricted to:

- Pre-sales equipment or software demonstration over the normal extend
- Equipment and software demonstration and explanation over the normal extend
- Advanced technical support
- Application support
- Comparative study involving a camera, either alone or in conjunction with other instruments
- General measurements in a difficult or unusual situation

### Content

- Customized

### Labs

- Customized

### Course information

Available languages	English, French, other languages upon request
Target group	<ul style="list-style-type: none"> <li>• Advanced users who wish to receive an in-depth guidance to complex problems related to infrared equipment, applications, and measurement questions.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Industry technical personnel</li> <li>• Researchers</li> <li>• Scientists</li> <li>• University students</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic knowledge about thermography and related parameters.</li> <li>• Experience in measurement techniques and general software skills.</li> </ul>

### Course details

Duration	Typically 1 day
Structure	Theory and hands-on, depending on topics

**P/N: ITC-EXP-1050**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1050; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Consultancy by qualified ITC specialist</li> <li>Training and/or reference material</li> </ul>
Note	Consultancy is typically carried out at the customer's site. The fee does not include costs for instructor's travelling or lodging. The customer is responsible for providing access to the equipment or objects that should be analyzed or measured, a suitable meeting room, and preferably also refreshments/lunch.
Course organization	
ITC	ITC consultancy is offered by ITC in EMEA. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	ITC consultancy is delivered by ITC qualified specialists having the relevant expertise in infrared measurement and the related fields of application.

**Compatible with the following products**

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°

**P/N: ITC-EXP-1050**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1050; r. 23306; en-US

- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

## P/N: ITC-PRO-2004

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-PRO-2004  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

The core part (2 days) consists of lectures on theoretical subjects, plus hands-on. After a general review of heat and heat transfer, the participants will learn about radiative heat transfer. Starting with the standard measurement situation they will learn about the importance of emissivity and reflected apparent temperature. The participants will compute and estimate emissivity and do compensation for the reflected apparent temperature. They will also learn about calibration and Hypercal. Depending on the needs of the audience and the time available, additional topics to be covered can be measurement through windows, measurable figures of merit, signal generation, the influence of integration time, ROIC, etc., triggering and synchronization, and NUC and Bad Pixel Replacement.

### Content

- Introduction
- Review on thermal transfer
- Radiative heat transfer
- What does a camera see? Definition of a standard measurement situation
- Computing the emissivity. Estimating emissivity and T<sub>Refl</sub> (with practice)
- From radiation to signal
- Measurable figure of merits (with practice)
- Triggering and synchronization (additional content, upon request, with practice)
- Measuring through a window (additional content, upon request, with practice)
- Calibration (additional content, upon request, with practice)
- Spectral filters (additional content, upon request, with practice)
- NUC and Bad Pixels replacement (additional content, upon request, with practice)
- Transient, Lock-in and Pulse, basics of NDT (additional content, upon request)

### Labs

- Practice according to content listed above

### Course information

Available languages	English, other languages upon request
Target group	<ul style="list-style-type: none"> <li>• Users of FLIR cooled thermal cameras and systems (cameras connected to a PC with e.g. the software programs Altair, AltairLI or Thesa).</li> <li>• Users of un-cooled thermal cameras with interest in advanced thermal measurement applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Laboratory and industry technical personnel</li> <li>• Researchers and scientists</li> <li>• University students</li> <li>• Persons working with NDT</li> </ul>

**P/N: ITC-PRO-2004**

© 2015, FLIR Systems, Inc.

#ITC-PRO-2004; r. 23306; en-US

Course information	
Pre-requisites	<ul style="list-style-type: none"> <li>None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Basic knowledge about thermography and related parameters.</li> <li>Experience in measurement techniques and general software skills.</li> </ul>
Course details	
Duration	<p>Standard: 2 days</p> <p>Upon request: Additional day including complementary topics</p> <p>Upon request: 1 day only (for experienced users with sufficient theoretical background)</p>
Structure	Theory and hands-on
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training and/or reference material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 4 persons</li> <li>Might include more, such as lunch, refreshments, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Note	<p>This is normally an on-site course organized at a customer's facility. The fee does not include costs for instructor's travelling or lodging. The customer is responsible for providing access to the equipment or objects that should be analyzed or measured, a suitable meeting room, and preferably also refreshments/lunch.</p>
Course organization	
ITC	<p>The course "ITC In-house R&amp;D training ATS products" is offered by ITC direct operations in EMEA. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.</p>
ITC Trainers and Licensed Trainers	<p>The course "ITC In-house R&amp;D training ATS products" is delivered by ITC qualified instructors having the relevant expertise in advanced thermal measurement, infrared applications, and the use of the camera equipment including software programs.</p>

**Compatible with the following products**

- 42901-1001; FLIR A305sc
- 48001-1001; FLIR A325sc
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-EXP-1021

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1021  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

An on-site training can be customized upon your needs. The participants will learn about IR thermography, inspections, measurements, applications, and reporting corresponding to the level needed for performing measurements and inspection in their working environment. The trainer will give useful advice on how to best implement IR thermography in your business.

This partnumber is reserved for adding additional students to an on site class.

### Content

- An on-site course can be any course, from a 1-day introduction to general thermography, over a customized application course to a complete certification course.

### Labs

- Portable classroom labs
- Field training on the site in agreement with the customer

### Course information

Available languages	English, Dutch, German, French, Italian, Spanish, Swedish, other languages upon request
Target group	<ul style="list-style-type: none"> <li>• Employees of a company or certain departments who would like to minimize travel costs and receive the training directly on their daily working site.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>

### Course details

Duration	Customized or according to the kind of course the in-house training is equivalent to.
Structure	Theory, camera handling, demos, practical labs and field training alternate.

**P/N: ITC-EXP-1021**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1021; r. 23306; en-US

Course details	
Exam	Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> </ul>
Course organization	
ITC	ITC In-house courses are offered worldwide by ITC and partners as listed. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	ITC In-house courses are lectured by ITC qualified instructors with experience in the relevant fields of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm

**P/N: ITC-EXP-1021**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1021; r. 23306; en-US

- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°



**P/N: ITC-EXP-1021**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1021; r. 23306; en-US

- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-1029

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1029  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
An on-site training can be customized upon your needs. The participants will learn about IR thermography, inspections, measurements, applications, and reporting corresponding to the level needed for performing measurements and inspection in their working environment. The trainer will give useful advice on how to best implement IR thermography in your business.	
Content	
<ul style="list-style-type: none"> <li>An on-site course can be any course, from a 1-day introduction to general thermography, over a customized application course to a complete certification course.</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Portable classroom labs</li> <li>Field training on the site in agreement with the customer</li> </ul>	
Course information	
Available languages	English, Dutch, German, French, Italian, Spanish, Swedish, other languages upon request
Target group	<ul style="list-style-type: none"> <li>Employees of a company or certain departments who would like to minimize travel costs and receive the training directly on their daily working site.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.</li> </ul>
Course details	
Duration	Customized or according to the kind of course the in-house training is equivalent to.
Structure	Theory, camera handling, demos, practical labs and field training alternate.
Exam	Please refer to the pre-requisites and recommendations applicable to the kind of course the in-house training is equivalent to.

**P/N: ITC-EXP-1029**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1029; r. 23306; en-US

Course details	
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> </ul>
Note	Course fee does not include cost for instructor's travelling or lodging. When organized at the customers' site, the customer is responsible for providing a suitable classroom and preferably also refreshments/lunch.
Course organization	
ITC	ITC In-house courses are offered worldwide by ITC and partners as listed. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	ITC In-house courses are lectured by ITC qualified instructors with experience in the relevant fields of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)

**P/N: ITC-EXP-1029**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1029; r. 23306; en-US

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL

**P/N: ITC-EXP-1029**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1029; r. 23306; en-US

- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-CER-5105

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5105  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 1 certified thermographer. The participant will learn about the basics of infrared, how to operate the camera under different conditions and for various purposes, how to do an appropriate judgement of the measurement situation in the field and how to identify potential error sources. After the class, the participant will be able to do IR inspections following written guidelines and to report the result of this inspection.

This partnumber is reserved for adding additional students to a level 1 on site class.

### Content

- Introduction to Thermography
- Camera Operation
- Basic physics of heat
- Basic physics of infrared
- Thermal pattern recognition and IR applications
- IR temperature measurement techniques
- Qualitative and quantitative thermography
- Inspection routines and reporting

### Student presentations

During the seminar, students will generate a small case study based on the lab exercises to be presented to the class.

### Labs

- Camera handling
- Level and Span
- Conduction pattern
- Forced convection
- Direct and indirect thermal measurement
- Thermal capacity
- Steady state and transient heat flow
- Evaporation and condensation
- Electrical application
- Emissivity and Reflected apparent temperature
- Spatial resolution
- Location and temperature measurement of a hot/cold spot
- Image transfer to the computer

**P/N: ITC-CER-5105**

© 2015, FLIR Systems, Inc.

#ITC-CER-5105; r. 23306; en-US

Course information	
Available languages	Chinese, Danish, Dutch, English, Finish, French, German, Greek, Hebrew, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (bra.), Romanian, Russian, Serbo-Croatian, Spanish, Swedish, Thai
Target group	<ul style="list-style-type: none"> <li>• Practical user</li> <li>• This course is designed for beginners in thermography with some experience in camera handling and limited IR knowledge, who want to take their first step to become a professional thermographer and want to qualify as a Level 1 certified thermographer.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>• having already some basic experience with IR thermography,</li> <li>• knowing the basic functions of the camera,</li> <li>• who wants to become a certified thermographer in order to gain a competitive advantage or who needs the certifications because of legal reasons or company internal regulations.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Be familiar with the basic operation of an infrared camera</li> <li>• Have the recommended experience within thermography according to relevant standards</li> </ul>

Course details	
Duration	35 – 40 hours
Structure	Theory and camera practice (hands-on) alternate every day, additional labs and software exercises at some days.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>• Attendance of 1 person</li> <li>• Might include more, such as lunch, depending on location and organizing entity</li> </ul>
Note	Only for non-EURO, non-SEK, non NOK, non- £, -non CHF countries

Course organization	
ITC	The Level 1 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)

**P/N: ITC-CER-5105**

© 2015, FLIR Systems, Inc.

#ITC-CER-5105; r. 23306; en-US

- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc



**P/N: ITC-CER-5105**

© 2015, FLIR Systems, Inc.

#ITC-CER-5105; r. 23306; en-US

- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-CER-5101

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5101  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 1 certified thermographer. The participant will learn about the basics of infrared, how to operate the camera under different conditions and for various purposes, how to do an appropriate judgement of the measurement situation in the field and how to identify potential error sources. After the class, the participant will be able to do IR inspections following written guidelines and to report the result of this inspection.

### Content

- Introduction to Thermography
- Camera Operation
- Basic physics of heat
- Basic physics of infrared
- Thermal pattern recognition and IR applications
- IR temperature measurement techniques
- Qualitative and quantitative thermography
- Inspection routines and reporting

### Student presentations

During the seminar, students will generate a small case study based on the lab exercises to be presented to the class.

### Labs

- Camera handling
- Level and Span
- Conduction pattern
- Forced convection
- Direct and indirect thermal measurement
- Thermal capacity
- Steady state and transient heat flow
- Evaporation and condensation
- Electrical application
- Emissivity and Reflected apparent temperature
- Spatial resolution
- Location and temperature measurement of a hot/cold spot
- Image transfer to the computer

**P/N: ITC-CER-5101**

© 2015, FLIR Systems, Inc.

#ITC-CER-5101; r. 23306; en-US

Course information	
Available languages	Chinese, Danish, Dutch, English, Finish, French, German, Greek, Hebrew, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (bra.), Romanian, Russian, Serbo-Croatian, Spanish, Swedish, Thai
Target group	<ul style="list-style-type: none"> <li>• Practical user</li> <li>• This course is designed for beginners in thermography with some experience in camera handling and limited IR knowledge, who want to take their first step to become a professional thermographer and want to qualify as a Level 1 certified thermographer.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>• having already some basic experience with IR thermography,</li> <li>• knowing the basic functions of the camera,</li> <li>• who wants to become a certified thermographer in order to gain a competitive advantage or who needs the certifications because of legal reasons or company internal regulations.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Be familiar with the basic operation of an infrared camera</li> <li>• Have the recommended experience within thermography according to relevant standards</li> </ul>

Course details	
Duration	35 – 40 hours
Structure	Theory and camera practice (hands-on) alternate every day, additional labs and software exercises at some days.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>• Attendance of 1 person</li> <li>• Might include more, such as lunch, depending on location and organizing entity</li> </ul>

Course organization	
ITC	The Level 1 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)

**P/N: ITC-CER-5101**

© 2015, FLIR Systems, Inc.

#ITC-CER-5101; r. 23306; en-US

- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)

**P/N: ITC-CER-5101**

© 2015, FLIR Systems, Inc.

#ITC-CER-5101; r. 23306; en-US

- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-CER-5109

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5109  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 1 certified thermographer. The participant will learn about the basics of infrared, how to operate the camera under different conditions and for various purposes, how to do an appropriate judgement of the measurement situation in the field and how to identify potential error sources. After the class, the participant will be able to do IR inspections following written guidelines and to report the result of this inspection.

### Content

- Introduction to Thermography
- Camera Operation
- Basic physics of heat
- Basic physics of infrared
- Thermal pattern recognition and IR applications
- IR temperature measurement techniques
- Qualitative and quantitative thermography
- Inspection routines and reporting

### Student presentations

During the seminar, students will generate a small case study based on the lab exercises to be presented to the class.

### Labs

- Camera handling
- Level and Span
- Conduction pattern
- Forced convection
- Direct and indirect thermal measurement
- Thermal capacity
- Steady state and transient heat flow
- Evaporation and condensation
- Electrical application
- Emissivity and Reflected apparent temperature
- Spatial resolution
- Location and temperature measurement of a hot/cold spot
- Image transfer to the computer

**P/N: ITC-CER-5109**

© 2015, FLIR Systems, Inc.

#ITC-CER-5109; r. 23306; en-US

Course information	
Available languages	Chinese, Danish, Dutch, English, Finish, French, German, Greek, Hebrew, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (bra.), Romanian, Russian, Serbo-Croatian, Spanish, Swedish, Thai
Target group	<ul style="list-style-type: none"> <li>• Practical user</li> <li>• This course is designed for beginners in thermography with some experience in camera handling and limited IR knowledge, who want to take their first step to become a professional thermographer and want to qualify as a Level 1 certified thermographer.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>• having already some basic experience with IR thermography,</li> <li>• knowing the basic functions of the camera,</li> <li>• who wants to become a certified thermographer in order to gain a competitive advantage or who needs the certifications because of legal reasons or company internal regulations.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Be familiar with the basic operation of an infrared camera</li> <li>• Have the recommended experience within thermography according to relevant standards</li> </ul>

Course details	
Duration	35 – 40 hours
Structure	Theory and camera practice (hands-on) alternate every day, additional labs and software exercises at some days.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by ITC licensed instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>• Attendance of a group up to 10 persons</li> <li>• Might include more, such as lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>

Course organization	
ITC	The Level 1 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in "Courses offered by ITC partners" (T560393). Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)

**P/N: ITC-CER-5109**

© 2015, FLIR Systems, Inc.

#ITC-CER-5109; r. 23306; en-US

- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310



**P/N: ITC-CER-5109**

© 2015, FLIR Systems, Inc.

#ITC-CER-5109; r. 23306; en-US

- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-CER-5205

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5205  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 2 certified thermographer. The participant will learn about topics in infrared thermography to increase the knowledge about infrared physics, heat science, infrared measurement equipment and its application. As a Level 2 thermographer the participant shall provide guidance to category 1 personnel in the areas of equipment selection, techniques, limitations, data analysis, corrective actions and reporting.

This partnumber is reserved for adding additional students to a level 2 on site class.

### Content

- Thermal science
- Heat transfer
- Temperature measurement
- Infrared science
- IR equipment and applications

### Student presentations

During the seminar, students shall present a prepared case study to the class. The maximum duration (excl. discussion) should be 7 minutes and the maximum number of 7 slides should not be exceeded.

### Labs (Note: Labs marked "(M)" are mandatory)

- Newton's law (class lab) (M)
- Advanced emissivity measurement (M)
- Variation of emissivity with the angle (M)
- Transient thermal transfer
- Indirect power measurement (M)
- IR-window transmission (M)
- Slit Response Function
- Hole Response Function (M)
- Parallel circuits

### Course information

Available languages	Dutch, English, German, French, Italian, Portuguese (bra.), Spanish, Swedish
Target group	<ul style="list-style-type: none"> <li>• Professional user</li> <li>• This course is designed for thermographers holding a Level 1 certificate, who want to increase their knowledge about IR thermography and who want to qualify as a Level 2 certified thermographer.</li> </ul>

**P/N: ITC-CER-5205**

© 2015, FLIR Systems, Inc.

#ITC-CER-5205; r. 23306; en-US

Course information	
Typical student	<ul style="list-style-type: none"> <li>A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>having several months of professional experience within thermography,</li> <li>versed in camera operation and reporting,</li> <li>holding a Level 1 certificate,</li> <li>who needs the Level 2 Certification for guidance and supervision of other thermographers or is interested in deeper understanding of IR thermography.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Valid Level 1 thermography certificate,</li> <li>Recommended experience within thermography according to relevant standards,</li> <li>Prepared case study to be presented at the Level 2 course and submitted towards qualification at course closing.</li> </ul>

Course details	
Duration	40 hours
Structure	Theory, camera practice (hands-on), and prepared case studies alternate every day.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>Attendance of 1 person</li> <li>Might include more, such as lunch, depending on location and organizing entity.</li> </ul>
Note	Only for non-EURO, non-SEK, non NOK, non- £, -non CHF countries

Course organization	
ITC	The Level 2 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in T560393 Courses offered by ITC partners. Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)

**P/N: ITC-CER-5205**

© 2015, FLIR Systems, Inc.

#ITC-CER-5205; r. 23306; en-US

- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°

**P/N: ITC-CER-5205**

© 2015, FLIR Systems, Inc.

#ITC-CER-5205; r. 23306; en-US

- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-CER-5201

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5201  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 2 certified thermographer. The participant will learn about topics in infrared thermography to increase the knowledge about infrared physics, heat science, infrared measurement equipment and its application. As a Level 2 thermographer the participant shall provide guidance to category 1 personnel in the areas of equipment selection, techniques, limitations, data analysis, corrective actions and reporting.

### Content

- Thermal science
- Heat transfer
- Temperature measurement
- Infrared science
- IR equipment and applications

### Student presentations

During the seminar, students shall present a prepared case study to the class. The maximum duration (excl. discussion) should be 7 minutes and the maximum number of 7 slides should not be exceeded.

### Labs (Note: Labs marked "(M)" are mandatory)

- Newton's law (class lab) (M)
- Advanced emissivity measurement (M)
- Variation of emissivity with the angle (M)
- Transient thermal transfer
- Indirect power measurement (M)
- IR-window transmission (M)
- Slit Response Function
- Hole Response Function (M)
- Parallel circuits

### Course information

Available languages	Dutch, English, German, French, Italian, Portuguese (bra.), Spanish, Swedish
Target group	<ul style="list-style-type: none"> <li>• Professional user</li> <li>• This course is designed for thermographers holding a Level 1 certificate, who want to increase their knowledge about IR thermography and who want to qualify as a Level 2 certified thermographer.</li> </ul>

**P/N: ITC-CER-5201**

© 2015, FLIR Systems, Inc.

#ITC-CER-5201; r. 23306; en-US

Course information	
Typical student	<ul style="list-style-type: none"> <li>A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>having several months of professional experience within thermography,</li> <li>versed in camera operation and reporting,</li> <li>holding a Level 1 certificate,</li> <li>who needs the Level 2 Certification for guidance and supervision of other thermographers or is interested in deeper understanding of IR thermography.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Valid Level 1 thermography certificate,</li> <li>Recommended experience within thermography according to relevant standards,</li> <li>Prepared case study to be presented at the Level 2 course and submitted towards qualification at course closing.</li> </ul>
Course details	
Duration	40 hours
Structure	Theory, camera practice (hands-on), and prepared case studies alternate every day.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>Attendance of 1 person</li> <li>Might include more, such as lunch, depending on location and organizing entity.</li> </ul>
Course organization	
ITC	The Level 2 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in T560393 Courses offered by ITC partners. Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)

**P/N: ITC-CER-5201**

© 2015, FLIR Systems, Inc.

#ITC-CER-5201; r. 23306; en-US

- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°



**P/N: ITC-CER-5201**

© 2015, FLIR Systems, Inc.

#ITC-CER-5201; r. 23306; en-US

- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-CER-5209

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-CER-5209  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course prepares the student for qualification as a category 2 certified thermographer. The participant will learn about topics in infrared thermography to increase the knowledge about infrared physics, heat science, infrared measurement equipment and its application. As a Level 2 thermographer the participant shall provide guidance to category 1 personnel in the areas of equipment selection, techniques, limitations, data analysis, corrective actions and reporting.

### Content

- Thermal science
- Heat transfer
- Temperature measurement
- Infrared science
- IR equipment and applications

### Student presentations

During the seminar, students shall present a prepared case study to the class. The maximum duration (excl. discussion) should be 7 minutes and the maximum number of 7 slides should not be exceeded.

### Labs (Note: Labs marked "(M)" are mandatory)

- Newton's law (class lab) (M)
- Advanced emissivity measurement (M)
- Variation of emissivity with the angle (M)
- Transient thermal transfer
- Indirect power measurement (M)
- IR-window transmission (M)
- Slit Response Function
- Hole Response Function (M)
- Parallel circuits

### Course information

Available languages	Dutch, English, German, French, Italian, Portuguese (bra.), Spanish, Swedish
Target group	<ul style="list-style-type: none"> <li>• Professional user</li> <li>• This course is designed for thermographers holding a Level 1 certificate, who want to increase their knowledge about IR thermography and who want to qualify as a Level 2 certified thermographer.</li> </ul>

**P/N: ITC-CER-5209**

© 2015, FLIR Systems, Inc.

#ITC-CER-5209; r. 23306; en-US

Course information	
Typical student	<ul style="list-style-type: none"> <li>A person with a professional technical background such as technician, engineer, consultant, or researcher who works with maintenance, building inspection, mechanical or electrical applications, production, or R&amp;D,</li> <li>having several months of professional experience within thermography,</li> <li>versed in camera operation and reporting,</li> <li>holding a Level 1 certificate,</li> <li>who needs the Level 2 Certification for guidance and supervision of other thermographers or is interested in deeper understanding of IR thermography.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Valid Level 1 thermography certificate,</li> <li>Recommended experience within thermography according to relevant standards,</li> <li>Prepared case study to be presented at the Level 2 course and submitted towards qualification at course closing.</li> </ul>
Course details	
Duration	40 hours
Structure	Theory, camera practice (hands-on), and prepared case studies alternate every day.
Exam	Written exam (closed book) including multiple choice questions and practical image interpretation on the last day. Maximum duration as defined by relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by ITC licensed instructor</li> <li>Training material in printed format</li> <li>Refreshments</li> <li>Diploma of attendance</li> <li>Certificate of conformance with certification requirements (subject to passing the exam)</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as lunch, instructor's travel expenses, etc. depending on location and organizing entity.</li> </ul>
Course organization	
ITC	The Level 2 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in T560393 Courses offered by ITC partners. Specific customer requests shall be forwarded to the closest ITC subsidiary or LTC as listed in "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Level 1 Thermography Courses.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)

**P/N: ITC-CER-5209**

© 2015, FLIR Systems, Inc.

#ITC-CER-5209; r. 23306; en-US

- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°

**P/N: ITC-CER-5209**

© 2015, FLIR Systems, Inc.

#ITC-CER-5209; r. 23306; en-US

- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-PRA-2011

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-PRA-2011  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

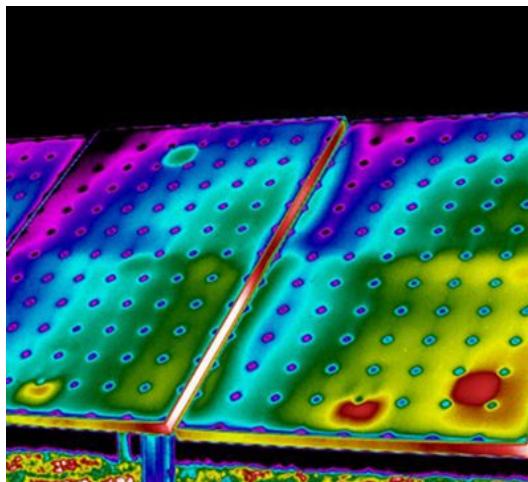
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course gives a general introduction to IR thermography and an overview on its specific use for inspections of photovoltaic solar systems.

During the first day, you learn about the basics of thermography, how a thermal camera works, and how to use it correctly. The second day starts with the basics of photovoltaic solar systems and solar panel installations. You learn about IR metrological particularities that are critical for solar panel inspections with a thermal camera, how to interpret the displayed thermal images, and in which way they can be associated to typical problems and faults. Emphasis is put on case studies, selected from the field, as well as practical exercises.

### Content

- Basics of thermography (radiation, spectral waveband, influences of the atmosphere)
- IR camera: principle, design and operation (FPA, measurement ranges, thermal tuning: level and span, color palettes)
- IR measurement technique: measurement parameters (emissivity, radiation from the environment, distance, relative humidity, atmospheric temperature)
- IR Camera figures of merit: resolution limits (thermal, spatial, time related)
- Practical exercises
- Basics of photovoltaic solar systems (terminology, design, principle of operation, module types)
- Solar panel installation: connection types (string, bypass diodes, shadowing)
- IR metrological particularity (spectral bands, inspection conditions, spatial resolution, camera positioning and angle)
- Typical thermal readouts (examples, causes and interpretation – defect/no defect, practical exercises)

### Course information

Available languages	English, French, German, Swedish, Italian, Dutch, Spanish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in the use of IR thermography for the inspection of photovoltaic solar systems.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person working with maintenance or installation of solar panels.</li> <li>• Thermographers familiar with electrical inspections and interested in solar panel inspections.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic knowledge in electrical installations or another technical field.</li> </ul>

### Course details

Duration	2 days
Structure	Theory, camera handling, demos and practical labs alternate.

**P/N: ITC-PRA-2011**

© 2015, FLIR Systems, Inc.

#ITC-PRA-2011; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by qualified ITC instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Might include more, such as lunch, depending on location</li> </ul>
Course organization	
ITC	The "ITC Practical Course Solar panel inspection" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC or ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Practical Course Solar panel inspection" is lectured by qualified ITC instructors with special experience in the field of solar panel installations.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5



---

**P/N: ITC-PRA-2011**

© 2015, FLIR Systems, Inc.

#ITC-PRA-2011; r. 23306; en-US

- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display



## P/N: ITC-PRA-2019

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-PRA-2019  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

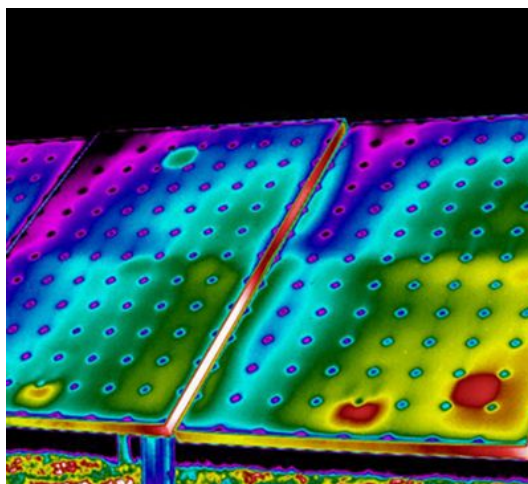
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course gives a general introduction to IR thermography and an overview on its specific use for inspections of photovoltaic solar systems.

During the first day, you learn about the basics of thermography, how a thermal camera works, and how to use it correctly. The second day starts with the basics of photovoltaic solar systems and solar panel installations. You learn about IR metrological particularities that are critical for solar panel inspections with a thermal camera, how to interpret the displayed thermal images, and in which way they can be associated to typical problems and faults. Emphasis is put on case studies, selected from the field, as well as practical exercises.

### Content

- Basics of thermography (radiation, spectral waveband, influences of the atmosphere)
- IR camera: principle, design and operation (FPA, measurement ranges, thermal tuning: level and span, color palettes)
- IR measurement technique: measurement parameters (emissivity, radiation from the environment, distance, relative humidity, atmospheric temperature)
- IR Camera figures of merit: resolution limits (thermal, spatial, time related)
- Practical exercises
- Basics of photovoltaic solar systems (terminology, design, principle of operation, module types)
- Solar panel installation: connection types (string, bypass diodes, shadowing)
- IR metrological particularity (spectral bands, inspection conditions, spatial resolution, camera positioning and angle)
- Typical thermal readouts (examples, causes and interpretation – defect/no defect, practical exercises)

### Course information

Available languages	English, French, German, Swedish, Italian, Dutch, Spanish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in the use of IR thermography for the inspection of photovoltaic solar systems.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person working with maintenance or installation of solar panels.</li> <li>• Thermographers familiar with electrical inspections and interested in solar panel inspections.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic knowledge in electrical installations or another technical field.</li> </ul>

### Course details

Duration	2 days
Structure	Theory, camera handling, demos and practical labs alternate.
Exam	None

**P/N: ITC-PRA-2019**

© 2015, FLIR Systems, Inc.

#ITC-PRA-2019; r. 23306; en-US

Course details	
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by qualified ITC instructor</li> <li>• Training material in printed format</li> <li>• Diploma of attendance</li> <li>• Attendance of a group up to 10 persons</li> <li>• Might include more, such as refreshments or lunch, depending on location.</li> </ul>
Note	Course fee does not include cost for instructor's travelling or lodging.
Course organization	
ITC	The "ITC Practical Course Solar panel inspection" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC or ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Practical Course Solar panel inspection" is lectured by qualified ITC instructors with special experience in the field of solar panel installations.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3



---

**P/N: ITC-PRA-2019**

© 2015, FLIR Systems, Inc.

#ITC-PRA-2019; r. 23306; en-US

- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-2036

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2036  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This 2-day course consists of lectures on theoretical subjects, plus hands-on.

After a general review of heat and heat transfer, the participants will learn about radiative heat transfer, and thermography equipment. Intensive practice is performed on software.

### Content

- Introduction
- Review on thermal transfer
- Radiative heat transfer (includes estimation of  $T_{\text{Refl}}$  and the emissivity) (with practice)
- Thermography equipment
- Software e.g. ThermoCAM Researcher, FLIR Quickplot or FLIR ResearchIR

### Labs

- Measurements and software exercises

### Course information

Available languages	English, other languages upon request
Target group	<ul style="list-style-type: none"> <li>• Users of FLIR uncooled thermal cameras working with software programs as ThermoCAM Researcher, FLIR Quickplot or FLIR ResearchIR</li> <li>• and with infrared applications in the industry or at research institutions.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Laboratory and industry technical personnel</li> <li>• Researchers and scientists</li> <li>• University students</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic knowledge about thermography and related parameters.</li> <li>• Experience in measurement techniques and general software skills.</li> </ul>

### Course details

Duration	Standard: 2 days (in succession or separate) Upon request: Additional day including complementary topics (ITC-EXP-3006) Upon request: 1 day only (for experienced users with sufficient theoretical background)
Structure	Theory and hands-on

**P/N: ITC-EXP-2036**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2036; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training and/or reference material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 6 persons</li> </ul>
Note	This is normally an on-site course organized at a customer's facility. The fee does not include costs for instructor's travelling or lodging. The customer is responsible for providing access to the equipment or objects that should be analyzed or measured, a suitable meeting room, and preferably also refreshments/lunch.
Course organization	
ITC	The course "ITC R&D basics for industry users" is offered by ITC direct operations in EMEA. Specific customer requests shall be forwarded to the closest ITC or ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The course "ITC R&D basics for industry users" is delivered by ITC qualified instructors having the relevant expertise in advanced thermal measurement, infrared applications, and the use of the camera equipment including software programs.

**Compatible with the following products**

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°

**P/N: ITC-EXP-2036**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2036; r. 23306; en-US

- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-EXP-2019

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2019  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course gives a general introduction to IR thermography and an overview on its specific use for the inspection of buildings. It aims at giving you clues on what you can do with your camera.

During the first day, you learn the basics of thermography and how to use your camera the best way. The second day you will start with a brief reminder of thermal transfers before you learn about the building envelope, important physical parameters and typical faults. Emphasis is put on case studies, selected from the field.

### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- IR Camera handling
- Basics of heat transfer
- The building envelope
- Important physical parameters
- Major anomalies
- Thermal patterns
- Application guidelines
- Data analysis and reports

### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement
- Building application labs

### Course information

Available languages	English, French, German, Swedish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in IR thermography and building applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person from the building sector</li> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> <li>• Students and pupils with thermography and building application related projects</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>



## ITC Short course building thermography - inclusive 10 pers. (2 days)

### P/N: ITC-EXP-2019

© 2015, FLIR Systems, Inc.

#ITC-EXP-2019; r. 23306; en-US

Course details	
Duration	2 days
Structure	Theory, camera handling, demos and practical labs alternate.
Exam	None
Course fee includes	<ul style="list-style-type: none"><li>• Tuition by qualified ITC instructor</li><li>• Training material in printed format</li><li>• Diploma of attendance</li><li>• Attendance of a group up to 10 persons</li><li>• Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li></ul>
Course organization	
ITC	The "ITC Short Course Building Thermography" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Building Thermography" is lectured by qualified ITC instructors with special experience in the field of building applications.

### Compatible with the following products

- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display



## P/N: ITC-EXP-2011

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2011  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course gives a general introduction to IR thermography and an overview on its specific use for the inspection of buildings. It aims at giving you clues on what you can do with your camera.

During the first day, you learn the basics of thermography and how to use your camera the best way. The second day you will start with a brief reminder of thermal transfers before you learn about the building envelope, important physical parameters and typical faults. Emphasis is put on case studies, selected from the field.

### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- IR Camera handling
- Basics of heat transfer
- The building envelope
- Important physical parameters
- Major anomalies
- Thermal patterns
- Application guidelines
- Data analysis and reports

### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement
- Building application labs

### Course information

Available languages	English, French, German, Swedish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in IR thermography and building applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person from the building sector</li> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> <li>• Students and pupils with thermography and building application related projects</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>



**P/N: ITC-EXP-2011**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2011; r. 23306; en-US

Course details	
Duration	2 days
Structure	Theory, camera handling, demos and practical labs alternate.
Exam	None
Course fee includes	<ul style="list-style-type: none"><li>• Tuition by qualified ITC instructor</li><li>• Training material in printed format</li><li>• Diploma of attendance</li><li>• Might include more, such as refreshments or lunch, depending on location and organizing entity</li></ul>
Course organization	
ITC	The "ITC Short Course Building Thermography" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Building Thermography" is lectured by qualified ITC instructors with special experience in the field of building applications.

**Compatible with the following products**

- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-2041

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2041  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course gives a general introduction to IR thermography and an overview on its specific use for inspections of electrical systems. It aims at giving you clues on what you can do with your camera.

During the first day, you learn the basics of thermography and how to use your camera the best way. The second day you will start with a brief reminder of thermal transfers before you learn about electrical systems and components, material properties, typical problems and faults. Emphasis is put on case studies, selected from the field.

### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- IR Camera handling
- Basics of heat transfer
- Electrical systems
- Important properties of material
- Most common problems
- Case studies
- Common mistakes
- Application guidelines
- Data analysis and reports

### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement
- Electrical application labs

### Course information

Available languages	English, French, German, Swedish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in IR thermography and electrical applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person working with maintenance or installation of electrical systems</li> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> <li>• Students and pupils with thermography and electrical application related projects</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>

**P/N: ITC-EXP-2041**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2041; r. 23306; en-US

Course details	
Duration	2 days
Structure	Theory, camera handling, demos and practical labs alternate.
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by qualified ITC instructor</li> <li>• Training material in printed format</li> <li>• Refreshments</li> <li>• Diploma of attendance</li> <li>• Might include more, such as lunch, depending on location</li> </ul>
Course organization	
ITC	The "ITC Short Course Electrical Thermography" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Electrical Thermography" is lectured by qualified ITC instructors with special experience in the field of electrical installations.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)



---

**P/N: ITC-EXP-2041**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2041; r. 23306; en-US

- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-2049

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2049  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course gives a general introduction to IR thermography and an overview on its specific use for inspections of electrical systems. It aims at giving you clues on what you can do with your camera.

During the first day, you learn the basics of thermography and how to use your camera the best way. The second day you will start with a brief reminder of thermal transfers before you learn about electrical systems and components, material properties, typical problems and faults. Emphasis is put on case studies, selected from the field.

### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- IR Camera handling
- Basics of heat transfer
- Electrical systems
- Important properties of material
- Most common problems
- Case studies
- Common mistakes
- Application guidelines
- Data analysis and reports

### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement
- Electrical application labs

### Course information

Available languages	English, French, German, Swedish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in IR thermography and electrical applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• A person working with maintenance or installation of electrical systems</li> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> <li>• Students and pupils with thermography and electrical application related projects</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>

**P/N: ITC-EXP-2049**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2049; r. 23306; en-US

Course details	
Duration	2 days
Structure	Theory, camera handling, demos and practical labs alternate.
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by qualified ITC instructor</li> <li>• Training material in printed format</li> <li>• Diploma of attendance</li> <li>• Attendance of a group up to 10 persons</li> <li>• Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	The "ITC Short Course Electrical Thermography" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Electrical Thermography" is lectured by qualified ITC instructors with special experience in the field of electrical installations.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)



---

**P/N: ITC-EXP-2049**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2049; r. 23306; en-US

- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display



## P/N: ITC-EXP-2025

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2025  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This full 2-day course aims at explaining how to set-up a procedure for the temperature control of population. It is designed for persons who might have to implement a control (medical authorities, customs, civil security, etc). It starts with a brief, but necessary, reminder of thermal transfers and of the fundamentals of thermography. Key factors such as NETD, drift and drift compensation, baseline measurement and update, and the factors influencing the diagnosis are explained in details. Camera setup is included. ITC recommends organizing it simultaneously to a real-size test (airport, ferry-port, seaport, river port, stadium, etc.).

This partnumber is reserved for adding additional students to a fever screening on site class.

### Content

- Introduction
- Human physiological factors
- Basic thermography
- IR Camera basics
- Fever screening methodology

### Labs

- Emissivity and Trefl
- Camera settings
- Influence of the object size on the measurement

### Course information

Available languages	English
Target group	<ul style="list-style-type: none"> <li>• Persons with professional interest in human febrile temperature screening.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Airline operative personnel</li> <li>• Reception personnel</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic technical understanding</li> <li>• Should be organized with a real-size test in the field</li> </ul>

### Course details

Duration	2 days
Structure	Theory, camera handling, demos in the morning and practical labs alternate.

**P/N: ITC-EXP-2025**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2025; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>
Course organization	
ITC	The "ITC Short Course Fever Screening" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Fever Screening" is lectured by qualified ITC instructors with special experience in human febrile temperature screening.

**Compatible with the following products**

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL

---

**P/N: ITC-EXP-2025**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2025; r. 23306; en-US

- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-EXP-2021

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2021  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This full 2-day course aims at explaining how to set-up a procedure for the temperature control of population. It is designed for persons who might have to implement a control (medical authorities, customs, civil security, etc). It starts with a brief, but necessary, reminder of thermal transfers and of the fundamentals of thermography. Key factors such as NETD, drift and drift compensation, baseline measurement and update, and the factors influencing the diagnosis are explained in details. Camera setup is included. ITC recommends organizing it simultaneously to a real-size test (airport, ferry-port, seaport, river port, stadium, etc.).

### Content

- Introduction
- Human physiological factors
- Basic thermography
- IR Camera basics
- Fever screening methodology

### Labs

- Emissivity and Trefl
- Camera settings
- Influence of the object size on the measurement

### Course information

Available languages	English
Target group	<ul style="list-style-type: none"> <li>• Persons with professional interest in human febrile temperature screening.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Airline operative personnel</li> <li>• Reception personnel</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic technical understanding</li> <li>• Should be organized with a real-size test in the field</li> </ul>

### Course details

Duration	2 days
Structure	Theory, camera handling, demos in the morning and practical labs alternate.

**P/N: ITC-EXP-2021**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2021; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by qualified ITC instructor</li> <li>• Training material in printed format</li> <li>• Diploma of attendance</li> <li>• Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>
Course organization	
ITC	The "ITC Short Course Fever Screening" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Fever Screening" is lectured by qualified ITC instructors with special experience in human febrile temperature screening.

**Compatible with the following products**

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL

**P/N: ITC-EXP-2021**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2021; r. 23306; en-US

- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-EXP-2029

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2029  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This full 2-day course aims at explaining how to set-up a procedure for the temperature control of population. It is designed for persons who might have to implement a control (medical authorities, customs, civil security, etc). It starts with a brief, but necessary, reminder of thermal transfers and of the fundamentals of thermography. Key factors such as NETD, drift and drift compensation, baseline measurement and update, and the factors influencing the diagnosis are explained in details. Camera setup is included. ITC recommends organizing it simultaneously to a real-size test (airport, ferry-port, seaport, river port, stadium, etc.).

### Content

- Introduction
- Human physiological factors
- Basic thermography
- IR Camera basics
- Fever screening methodology

### Labs

- Emissivity and Trefl
- Camera settings
- Influence of the object size on the measurement

### Course information

Available languages	English
Target group	<ul style="list-style-type: none"> <li>• Persons with professional interest in human febrile temperature screening.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Airline operative personnel</li> <li>• Reception personnel</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic technical understanding</li> <li>• Should be organized with a real-size test in the field</li> </ul>

### Course details

Duration	2 days
Structure	Theory, camera handling, demos in the morning and practical labs alternate.

**P/N: ITC-EXP-2029**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2029; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	The "ITC Short Course Fever Screening" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Fever Screening" is lectured by qualified ITC instructors with special experience in human febrile temperature screening.

**Compatible with the following products**

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC



**P/N: ITC-EXP-2029**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2029; r. 23306; en-US

- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-EXP-2061

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2061  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

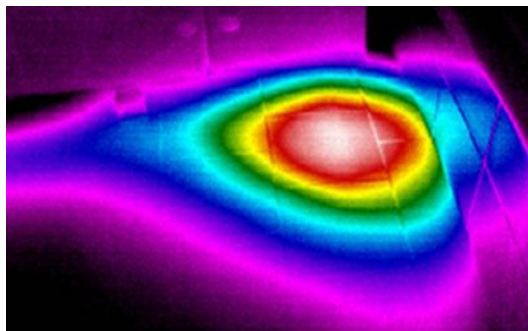
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course gives a general introduction to IR thermography and an overview on its specific use for inspections of heating and HVAC systems, and related installations. It aims at giving you clues on what you can do with your camera.

During the first day, you learn the basics of thermography, and how to use your camera the best way. The second day you will get introduced to various heating systems before you learn about typical faults and how thermography helps you to locate and analyze these. Emphasis is put on case studies, selected from the field.

### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- IR Camera handling
- Heating systems
- Pipe tracing and localization of water circuits
- Water leaks
- Moisture and humidity
- Water radiators
- Tanks, manifolds and plenums
- HVAC systems
- Industrial heat exchangers
- Photovoltaic panel inspection
- Data analysis and reports

### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement
- Application labs

### Course information

Available languages	English, French, German, Italian, Spanish, Swedish
Target group	<ul style="list-style-type: none"> <li>• Beginners and anybody interested in IR thermography, plumbing and HVAC applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Plumbers or persons working with plumbing and or/HVAC systems</li> <li>• Facility managers</li> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>

### Course details

Duration	2 days
Structure	Theory, camera handling, demos and practical labs alternate.



**P/N: ITC-EXP-2061**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2061; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"><li>• Tuition by qualified ITC instructor</li><li>• Training material in printed format</li><li>• Refreshments</li><li>• Diploma of attendance</li><li>• Might include more, such as lunch, depending on location</li></ul>
Course organization	
ITC	The "ITC Short Course HVAC and plumbing" is offered in EMEA by ITC and partners. Specific customer requests shall be forwarded to the closest ITC or ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course HVAC and plumbing" is lectured by qualified ITC instructors with special experience in the field of electrical installations.

**Compatible with the following products**

- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-2069

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2069  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

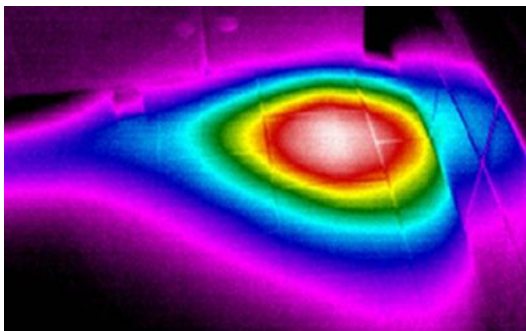
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This course gives a general introduction to IR thermography and an overview on its specific use for inspections of heating and HVAC systems, and related installations. It aims at giving you clues on what you can do with your camera.

During the first day, you learn the basics of thermography, and how to use your camera the best way. The second day you will get introduced to various heating systems before you learn about typical faults and how thermography helps you to locate and analyze these. Emphasis is put on case studies, selected from the field.

### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- IR Camera handling
- Heating systems
- Pipe tracing and localization of water circuits
- Water leaks
- Moisture and humidity
- Water radiators
- Tanks, manifolds and plenums
- HVAC systems
- Industrial heat exchangers
- Photovoltaic panel inspection
- Data analysis and reports

### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement
- Application labs

### Course information

Available languages	English, French, German, Italian, Spanish, Swedish
Target group	<ul style="list-style-type: none"> <li>• Beginners and anybody interested in IR thermography, plumbing and HVAC applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Plumbers or persons working with plumbing and or/HVAC systems</li> <li>• Facility managers</li> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>

### Course details

Duration	2 days
Structure	Theory, camera handling, demos and practical labs alternate.
Exam	None



**P/N: ITC-EXP-2069**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2069; r. 23306; en-US

Course details	
Course fee includes	<ul style="list-style-type: none"><li>• Tuition by qualified ITC instructor</li><li>• Training material in printed format</li><li>• Diploma of attendance</li><li>• Attendance of a group up to 10 persons</li><li>• Might include more, such as refreshments or lunch, depending on location.</li></ul>
Note	Course fee does not include cost for instructor's travelling or lodging.

Course organization	
ITC	The "ITC Short Course HVAC and plumbing" is offered in EMEA by ITC and partners. Specific customer requests shall be forwarded to the closest ITC or ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course HVAC and plumbing" is lectured by qualified ITC instructors with special experience in the field of electrical installations.

**Compatible with the following products**

- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-1019

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1019  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This is a full one day course for beginners and everybody interested in IR thermography and its applications. The course covers the basics of IR theory and includes demos, camera hand-on and practical exercises using relevant key labs.

### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- Introduction to electrical and building inspections
- IR Camera handling
- Data analysis and reports

### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement

### Course information

Available languages	English, French, German, Swedish, Danish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in IR thermography and its applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> <li>• A person who starts to use IR cameras at work</li> <li>• Students and pupils with thermography related projects</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>

### Course details

Duration	1 day
Structure	Theory, camera handling and demos in the morning. Practical labs in the afternoon.

**P/N: ITC-EXP-1019**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1019; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>• Tuition by qualified ITC instructor</li> <li>• Training material in printed format</li> <li>• Diploma of attendance</li> <li>• Attendance of a group up to 10 persons</li> <li>• Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	The "ITC Short Course Introduction to Thermography" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Introduction to Thermography" is lectured by qualified ITC instructors with long time experience in the various fields of thermography.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)

**P/N: ITC-EXP-1019**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1019; r. 23306; en-US

- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC





---

**P/N: ITC-EXP-1019**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1019; r. 23306; en-US

- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-1011

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1011  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

This is a full one day course for beginners and everybody interested in IR thermography and its applications. The course covers the basics of IR theory and includes demos, camera hand-on and practical exercises using relevant key labs.

#### Content

- Basics of thermography
- Basics of emissivity and reflected apparent temperature
- Introduction to electrical and building inspections
- IR Camera handling
- Data analysis and reports

#### Labs

- Emissivity and Trefl
- Influence of the angle on the measurement
- Influence of the object size on the measurement

### Course information

Available languages	English, French, German, Swedish, Danish
Target group	<ul style="list-style-type: none"> <li>• Beginners and everybody interested in IR thermography and its applications.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Someone looking to purchase a camera</li> <li>• Someone who just purchased a camera</li> <li>• A person who starts to use IR cameras at work</li> <li>• Students and pupils with thermography related projects</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• None</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Interest for the technology and its applications</li> </ul>

### Course details

Duration	1 day
Structure	Theory, camera handling and demos in the morning. Practical labs in the afternoon.

**P/N: ITC-EXP-1011**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1011; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>
Course organization	
ITC	The "ITC Short Course Introduction to Thermography" is offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	The "ITC Short Course Introduction to Thermography" is lectured by qualified ITC instructors with long time experience in the various fields of thermography.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)

**P/N: ITC-EXP-1011**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1011; r. 23306; en-US

- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL

---

**P/N: ITC-EXP-1011**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1011; r. 23306; en-US

- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-3006

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-3006  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
An additional day can be booked when the customer wants to extend the training content, software exercises or guided field practice.	
The third day can be added to the following courses: ITC-EXP-2036	
Content	
<ul style="list-style-type: none"> <li>Customized, build on the topics of the course prior to the additional day</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized, depending on the equipment used and the application of interest</li> </ul>	
Course information	
Available languages	English, other languages upon demand
Target group	<ul style="list-style-type: none"> <li>Participants of short courses that are delivered on-site</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with special interests in the equipment and their application requesting in-depth training or additional guidance.</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Please refer to the pre-requisites of the course prior to the additional day</li> </ul>
Course details	
Duration	1 day
Structure	Customized upon the customer's request
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>ITC qualified instructor teaching the class</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 6 persons</li> <li>Might include more, such as lunch, refreshments, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>



**P/N: ITC-EXP-3006**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3006; r. 23306; en-US

Course organization	
ITC	Additional days are offered by the ITC or ITC partner arranging the respective standard class prior to the additional day. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Additional days are normally lectured by the same ITC trainers lecturing the standard class prior to the additional day.

**Compatible with the following products**

- 42901-1001; FLIR A305sc
- 48001-1001; FLIR A325sc
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

## P/N: ITC-SOW-0001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-SOW-0001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

These courses are for users of FLIR software like FLIR Reporter Professional or FLIR ResearchIR. Please observe that content and labs depend on the software used.

#### Content

- System requirements
- Configuration
- Analyzing functions
- Templates
- Reporting functions
- Data exchange

#### Labs

- System set up
- Data import
- Data analysis
- Creating templates
- Creating reports
- Exporting data
- Triggering

### Course information

Available languages	English, French, German, other languages upon request
Target group	<ul style="list-style-type: none"> <li>• Persons interested in, or users, of the specific software.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>• Consultants interested in reporting</li> <li>• Building inspectors with reporting needs</li> <li>• R&amp;D staff interested in advanced data analysis</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>• Laptop with installed software full version or 30 day demo (download on <a href="http://www.flir.com">www.flir.com</a>)</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>• Basic knowledge about thermography and related parameters.</li> </ul>

### Course details

Duration	Depends on software.
Structure	Short system introduction, then demos and practical exercises.



**P/N: ITC-SOW-0001**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0001; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>
Course organization	
ITC	Software courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Software courses are lectured by ITC qualified instructors experienced in usage of the software being subject of the class.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)

**P/N: ITC-SOW-0001**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0001; r. 23306; en-US

- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°

**P/N: ITC-SOW-0001**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0001; r. 23306; en-US

- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-SOW-0009

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-SOW-0009  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
These courses are for users of FLIR software like FLIR Reporter Professional or FLIR ResearchIR. Please observe that content and labs depend on the software used.	
Content	
<ul style="list-style-type: none"> <li>System requirements</li> <li>Configuration</li> <li>Analyzing functions</li> <li>Templates</li> <li>Reporting functions</li> <li>Data exchange</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>System set up</li> <li>Data import</li> <li>Data analysis</li> <li>Creating templates</li> <li>Creating reports</li> <li>Exporting data</li> <li>Triggering</li> </ul>	
Course information	
Available languages	English, French, German, other languages upon request
Target group	<ul style="list-style-type: none"> <li>Persons interested in, or users, of the specific software.</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Consultants interested in reporting</li> <li>Building inspectors with reporting needs</li> <li>R&amp;D staff interested in advanced data analysis</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Laptop with installed software full version or 30 day demo (download on <a href="http://www.flir.com">www.flir.com</a>)</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Basic knowledge about thermography and related parameters.</li> </ul>
Course details	
Duration	Depends on software.
Structure	Short system introduction, then demos and practical exercises.

**P/N: ITC-SOW-0009**

© 2015, FLIR Systems, Inc.  
#ITC-SOW-0009; r. 23306; en-US

Course details	
Exam	None
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>
Course organization	
ITC	Software courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Software courses are lectured by ITC qualified instructors experienced in usage of the software being subject of the class.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm

**P/N: ITC-SOW-0009**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0009; r. 23306; en-US

- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°

**P/N: ITC-SOW-0009**

© 2015, FLIR Systems, Inc.

#ITC-SOW-0009; r. 23306; en-US

- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-1001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	1 day
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>



**P/N: ITC-EXP-1001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1001; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-1001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1001; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-1001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1001; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-1009

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-1009  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	1 day
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-1009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1009; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-1009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1009; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-1009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-1009; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-2001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	2 days
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>



**P/N: ITC-EXP-2001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2001; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-2001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2001; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-2001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2001; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-2009

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-2009  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	2 days
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-2009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2009; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-2009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2009; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-2009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-2009; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-3001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-3001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	3 days
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Might include more, such as refreshments or lunch, depending on location and organizing entity</li> </ul>



**P/N: ITC-EXP-3001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3001; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-3001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3001; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-3001**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3001; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-EXP-3009

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-EXP-3009  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Labs	
<ul style="list-style-type: none"> <li>Customized</li> </ul>	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish, other languages upon request.
Target group	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Typical student	<ul style="list-style-type: none"> <li>Persons with very specific applications</li> <li>Persons requesting customized training, e.g. R&amp;D training</li> <li>Persons requesting product / system training</li> </ul>
Pre-requisites	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Depends on course</li> </ul>
Course details	
Duration	3 days
Structure	Typically theory and practical exercises
Exam	Upon request
Course fee includes	<ul style="list-style-type: none"> <li>Tuition by qualified ITC instructor</li> <li>Training material in printed format</li> <li>Diploma of attendance</li> <li>Attendance of a group up to 10 persons</li> <li>Might include more, such as refreshments, lunch, instructor's travel expenses, etc. depending on location and organizing entity</li> </ul>

**P/N: ITC-EXP-3009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3009; r. 23306; en-US

Course organization	
ITC	Customized courses are offered worldwide by ITC and partners. Specific customer requests shall be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are lectured by ITC qualified trainers with experience in the relevant field of application.

**Compatible with the following products**

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm

**P/N: ITC-EXP-3009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3009; r. 23306; en-US

- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°

**P/N: ITC-EXP-3009**

© 2015, FLIR Systems, Inc.

#ITC-EXP-3009; r. 23306; en-US

- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5
- 60101-0102; FLIR i3 with POS display
- 60101-0202; FLIR i5 with POS display

## P/N: ITC-SOW-1001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-SOW-1001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

ITC Training FLIR Software - attendance 1 pers. (1 day)

### Course details

Duration	1 day
----------	-------

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)





---

**P/N: ITC-SOW-1001**

© 2015, FLIR Systems, Inc.

#ITC-SOW-1001; r. 23306; en-US

- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-SOW-2001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-SOW-2001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

ITC Training FLIR Software - attendance 1 pers. (2 days)

### Course details

Duration	2 days
----------	--------

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)



---

**P/N: ITC-SOW-2001**

© 2015, FLIR Systems, Inc.

#ITC-SOW-2001; r. 23306; en-US

- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TFT-0100

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TFT-0100  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

ITC travel time for instructor

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TFT-0100**

© 2015, FLIR Systems, Inc.  
#ITC-TFT-0100; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TFT-0100**

© 2015, FLIR Systems, Inc.  
#ITC-TFT-0100; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-FEE-0130

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-FEE-0130  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General description	
EN - Repeat Certification EN473 IT Category 1	
Course information	
Available languages	DACH only
Course details	
Duration	1 day

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)

---

**P/N: ITC-FEE-0130**

© 2015, FLIR Systems, Inc.

#ITC-FEE-0130; r. 23306; en-US

- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5



## P/N: ITC-TOL-1003

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1003  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (Center and South Africa)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1003**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1003; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TOL-1003**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1003; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TOL-1001

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1001  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (Europe, Balcans, Turkey, Cyprus)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1001**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1001; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TOL-1001**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1001; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TOL-1005

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1005  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (other)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1005**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1005; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC



**P/N: ITC-TOL-1005**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1005; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TOL-1002

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1002  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (Russia/GUS, Middle East, North Africa)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1002**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1002; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TOL-1002**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1002; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

## P/N: ITC-TOL-1004

### Copyright

© 2015, FLIR Systems, Inc.  
All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: ITC-TOL-1004  
Commit: 23306  
Language: en-US  
Modified: 2015-02-23 15:46  
Formatted: 2015-05-12

### Corporate Headquarters

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



### General description

Travel and lodging expenses instructor (various)

### Compatible with the following products

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)

**P/N: ITC-TOL-1004**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1004; r. 23306; en-US

- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 62103-1101; FLIR T420 (incl. Wi-Fi)
- 62103-1205; FLIR T420 with SC kit (incl. Wi-Fi and 45° lens)
- 62103-1501; FLIR T420bx (incl. Wi-Fi)
- 62104-2203; FLIR T430sc (incl. Wi-Fi)
- 62103-1301; FLIR T440 (incl. Wi-Fi)
- 62103-1701; FLIR T440bx (incl. Wi-Fi)
- 62104-1903; FLIR T450sc (incl. Wi-Fi)
- 62104-2801; FLIR T460 (incl. Wi-Fi)
- 62319-0101; FLIR A15 f=19 mm
- 64319-0101; FLIR A15 f=19 mm (7.5 Hz)
- 62309-0101; FLIR A15 f=9 mm
- 64309-0101; FLIR A15 f=9 mm (7.5 Hz)
- 62309-0102; FLIR A15 f=9 mm with SC kit
- 64309-0102; FLIR A15 f=9 mm with SC kit (7.5 Hz)
- 63219-0101; FLIR A35 f=19 mm
- 63209-0101; FLIR A35 f=9 mm
- 63209-0102; FLIR A35 f=9 mm with SC kit
- 62205-0101; FLIR A5 f=5 mm
- 64205-0101; FLIR A5 f=5 mm (7.5 Hz)
- 62205-0102; FLIR A5 f=5 mm with SC kit
- 64205-0102; FLIR A5 f=5 mm with SC kit (7.5 Hz)
- 62209-0101; FLIR A5 f=9 mm
- 64209-0101; FLIR A5 f=9 mm (7.5 Hz)
- 62613-0101; FLIR A65 f=13 mm
- 62513-0101; FLIR A65 f=13 mm (7.5 Hz)
- 62513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 62625-0101; FLIR A65 f=25 mm
- 62525-0101; FLIR A65 f=25 mm (7.5 Hz)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 42901-1001; FLIR A305sc
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC

**P/N: ITC-TOL-1004**

© 2015, FLIR Systems, Inc.  
#ITC-TOL-1004; r. 23306; en-US

- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0201; FLIR A645sc 15°
- 55001-0202; FLIR A645sc 25°
- 55001-0203; FLIR A645sc 45°
- 55001-0204; FLIR A645sc 7°
- 55001-0205; FLIR A645sc 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 60101-0101; FLIR i3
- 60101-0201; FLIR i5

A photograph from our company archives





---

### 8.1 Welcome to ITC, the leading source of knowledge within infrared science and its applications

ITC is present in over 50 countries, and has instructors that speak 22 native languages. We offer everything from short introduction courses to certification courses. Our instructors are among the most knowledgeable people in the industry. ITC is proud that its products and services are compliant with industry, national, and international standards. Join our community, our conferences, or our courses at:

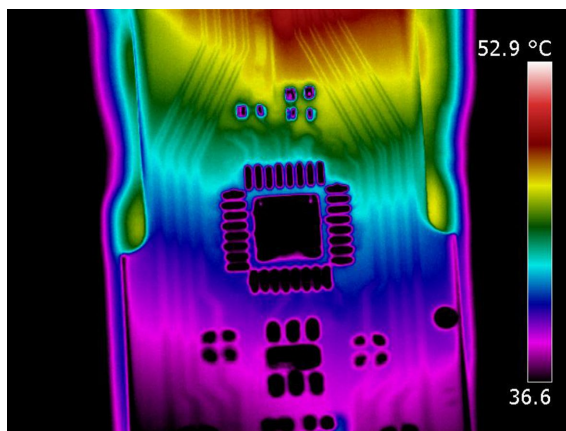
- <http://www.infraredtraining.com>
- <http://www.irtraining.eu>

### 8.2 Level 1 to 3 thermography courses

These courses prepare you for qualification as a certified thermographer. You will learn about infrared physics, camera technology, and thermographic applications and inspections at different levels. The courses include exercises, field studies, discussions, and traditional teaching classes, and end with a closed-book exam.

### 8.3 Advanced application courses

These interdisciplinary courses bridge the gap between infrared thermography, background science, and application theory. You will learn about important scientific concepts in, for example, physics, heat science, and chemistry. You will apply them together with relevant application theory, and thus be able to perform qualified inspections within your field of application on the basis of existing laws, standards, and regulations. The courses end with an exam. A prerequisite for these courses is a valid Level 1 certificate.



### 8.4 Short courses

These courses provide you with the most important basics of infrared thermography theory and applications, camera operation, and software usage. You will learn about the basics of emissivity and reflected apparent temperature and course-related applications. During the hands-on sessions you will operate a camera in different measurement situations. You will also learn how to analyze and report your findings. The courses include practical exercises and key laboratory sessions.

### 8.5 E-learning

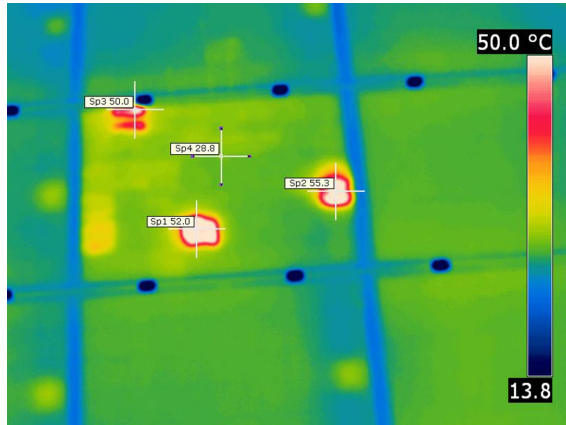
Self-paced 24/7 on-demand online courses are available for infrared thermography basics, different applications, and camera handling. Visit <http://www.irtraining.com>.

### 8.6 In-house classes

On-site training can be customized to your needs. Participants will learn about infrared thermography, inspections, measurements, applications, and reporting corresponding to the level needed to perform measurements and inspection in their working environment. The trainer will provide useful advice on how to best implement infrared thermography in your business.

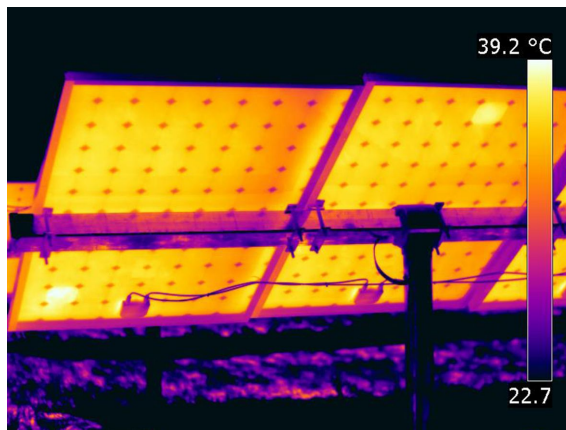
### 8.7 Software courses

In these hands-on classes you will learn to use the relevant FLIR Systems software for your needs. Depending on the software, the emphasis will be on analysis and reporting or camera connection, data acquisition, and analysis.



### 8.8 System training

Certain cameras and infrared measurement equipment require deeper understanding of the software and hardware components. In training classes for CVS, ATS, and automation cameras and products, you will learn about installation, configuration, and integration of the entire system for different applications. You will also learn about image acquisition optimization and image analysis.



### 8.9 Workshops and conferences

In many countries, ITC offers workshops and conferences on different infrared applications as well as user meetings. For information about InfraMation, the world's largest annual infrared applications conference, visit:

<http://www.inframation.org>

For the R&D and automation conference, infraR&D, visit:

<http://www.infraredforum.eu>

### 8.10 Contact details

- ITC Global operations: [itc@flir.se](mailto:itc@flir.se)
- ITC Americas: <http://www.infraredtraining.com>
- ITC EMEA: <http://www.irtraining.eu>
- [info@irtraining.eu](mailto:info@irtraining.eu)

A photograph from our company archives



### 9.1 FLIR Systems' qualifications

FLIR Systems is the world's largest manufacturer of commercial-grade infrared cameras, with over 50 years' experience. FLIR Systems builds state-of-the-art, high-performance, field-worthy infrared cameras. We're serious about our infrared cameras and the accuracy of the temperature measurements they produce. It's our core business—and it's our only business. FLIR Systems Service is ISO 9001:2000 certified.



### 9.2 FLIR Systems service

The FLIR Systems service team's mission is to provide the world's best service and support for your high-performance FLIR Systems infrared camera and accessories. FLIR Systems offers a variety of service packages to help you gain the most from your investment in a FLIR Systems infrared camera. FLIR Systems also recommends its FLIR Systems 14 Point Inspection & Calibration program on an annual basis to ensure correct temperature readings.

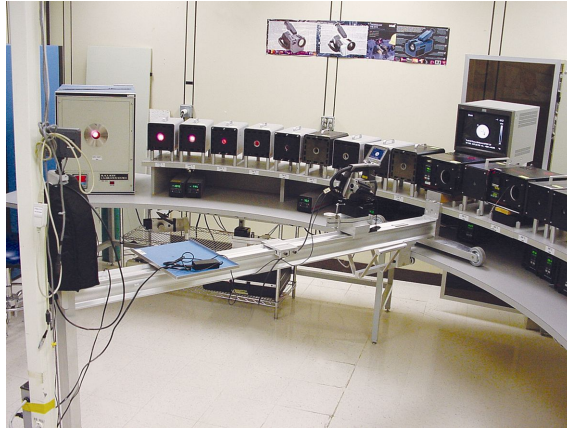


### 9.3 Service and support

FLIR Systems is committed to providing you with superior customer service and infrared camera support. Our customer service staff is available to take your calls during regular business hours. We have skilled technicians ready to assist you! Software and application support can be found 24 hours a day at:

<http://support.flir.com>





#### **9.4 Documentation downloads**

At <http://support.flir.com> you can search among more than 1700 manuals, mechanical drawings, and CAD data files from FLIR Systems (over 220,000 pages of technical information). The collection also includes manuals for our obsolete products, as well as manuals from our predecessors and acquired companies AGA, Agema, FSI, Inframetrics, Indigo Systems, and Cedip. Downloading documentation requires a simple customer registration.

#### **9.5 Software downloads**

At <http://support.flir.com> you can also download evaluation versions of our software, as well as service packs, patches, bug fixes, etc. Downloading software requires a simple customer registration.

#### **9.6 Downloads of datasheets and product catalogs**

At <http://support.flir.com> we also provide datasheets and product catalogs for all our products. These publications are re-published every night (CET) to make sure that they contain the very latest information. They are available in A4 and US letter sizes. No customer registration is needed to download these publications.

## Index

---

03198-000 .....	2667
09289-200 .....	2674
100 mm Lens .....	2660
100 mm Lens (for use with 21057-251 & 21057-200) .....	2665
1122000 .....	1187, 1316, 4305
1122048 .....	4540
1122060 .....	4539
1124545 .....	1686, 1886, 2097
1194958 .....	4509
1194962 .....	4510
1194977 .....	4378, 4419, 4642
1194981 .....	4506
1194982 .....	4507
1194983 .....	4515
1195022 .....	4508
1195027 .....	4536
1195128 .....	4306
1195129 .....	4307
1195143 .....	4395, 4435
1195221 .....	4308
1195269 .....	4534
1195270 .....	4535
1195271 .....	4309
1195272 .....	4310
1195273 .....	4311
1195313 .....	4390, 4431
1195314 .....	4389, 4430
1195346 .....	4361, 4404
1195436 .....	4312, 4545
1195437 .....	4382, 4423, 4647
1195438 .....	4380, 4421, 4645
1195439 .....	4381, 4422, 4646
1195461 .....	4313
1195492 .....	4314
1195495 .....	4396, 4436
1195577 .....	4315
1195578 .....	4316
1195642 .....	4523
1195650 .....	4374, 4415
1195694 .....	4399, 4439
1195719 .....	4383, 4424
1195815 .....	4557
1195939 .....	4644
1195981 .....	4542
1195982 .....	4543
1195994 .....	4402, 4442
1196007 .....	4541
1196017 .....	4537
1196018 .....	4544
1196019 .....	4538
1196020 .....	4317
1196325 .....	4360, 4403
1196326 .....	4318
1196355 .....	4319
1196356 .....	4320
1196357 .....	4321
1196359 .....	4322
1196398ACC .....	1176, 1305, 1674, 1874, 2080
1196683 .....	3666, 3877, 4082

## Index

---

1196714.....	4323
1196741.....	4324
1196742.....	4325
1196743.....	4326
1196744.....	3674, 3885, 4090
1196745.....	3673, 3884, 4089
1196818.....	1671, 1870
1196960.....	1464, 1661, 1860, 2068, 2857
1196961.....	1462, 1659, 1858, 2066, 2855
1199709.....	4511
1199710.....	4514
+1200°C/+2192°F External filter for EX320 ver. with 25° lens.....	4319
14730-000.....	2668
17151-002.....	2675
17619-200.....	2672
1909503.....	4397, 4437
1909529.....	4327, 4386, 4427, 4547, 4649
1909530.....	4328, 4387, 4428, 4548, 4650
1909531.....	4329, 4388, 4429, 4549, 4651
1909775.....	4393, 4434
1909811.....	4394
1909812.....	4392, 4433
1909813.....	4391, 4432
1909820.....	4513
1909921.....	4517, 4551
1909954.....	4518, 4552
1910015.....	4521, 4555
1910016.....	4522, 4556
1910228.....	4330, 4384, 4425, 4546, 4648
1910232.....	4400, 4440
1910233.....	4401, 4441
1910400.....	2869, 3387
1910401.....	2871, 3389
1910402.....	2873, 3391
1910423.....	1039, 1184, 1313, 1473, 1682, 1882, 2088, 2302, 2521, 3397, 3684, 3895, 4100
1910482ACC.....	3691, 3902, 4107
1910483ACC.....	3690, 3901, 4106
1910484ACC.....	3689, 3900, 4105
1910582ACC.....	1476, 2093
1910586ACC.....	2882, 3061, 3402
19250-100.....	1032, 1170, 1299, 1450, 1653, 1852, 2054, 2265, 3654, 3865, 4070
19250-200.....	1456, 2060, 2271, 3660, 3871, 4076
19251-100.....	1034, 1172, 1301, 1452, 1655, 1854, 2056, 2267, 3656, 3867, 4072
19251-200.....	1458, 2062, 2273, 3662, 3873, 4078
19252-100.....	1036, 1174, 1303, 1454, 1657, 1856, 2058, 2269, 3658, 3869, 4074
19252-200.....	1460, 2064, 2275, 3664, 3875, 4080
194109.....	4398, 4438
194176.....	4375, 4416, 4505, 4639
194401.....	4376, 4417, 4640
194533.....	4377, 4418, 4641
194560.....	4379, 4420, 4643
194713.....	4512
194737.....	4444
2-bay battery charger, incl. power supply with multi plugs.....	1180, 1309, 1678, 1878, 2082
20 m (66') plumbing spool (no camera, need VSC25 or VSC28).....	3573
20887-200.....	2658
20888-200.....	2659
20889-200.....	2660

## Index

---

20981-500 .....	2669
21465-000 .....	2671
21466-000 .....	2670
223-0017-00 .....	3229
23563-201 .....	2664
23563-202 .....	2665
24016-000 .....	2661
24016-001 .....	2662
24059-200 .....	517
24059-201 .....	511
24059-250 .....	508
24059-251 .....	514
24777-001 .....	2690
24779-200 .....	2691
25 mm camera head for spool, spool (VCS-20 or VCS-30) needed for operation .....	3575
25 mm Lens .....	2658
25 mm Lens (for use with 21057-251 & 21057-200) .....	2664
28 mm camera head for spool, spool (VCS-20 or VCS-30) needed for operation .....	3577
3.9 mm (0.15") camera with 1 m (3.3') flexible probe—QVGA via short focus .....	3579
30 cm (12") stainless steel rigid probe .....	3581
30 m (98') plumbing spool (no camera, need VSC25 or VSC28) .....	3583
324-0004-00 .....	3089
324-0010-00 .....	3235
3301011 .....	2673
4.1 mm (0.16") camera with 2 m (6.6') semi-rigid probe—QVGA via short focus .....	3585
4119468 .....	3228
4119507 .....	3091
4124857 .....	3233
4130235 .....	994, 3093, 3236
42701-1001 .....	620
42701-1101 .....	631
42701-1201 .....	651
42901-1001 .....	624
42901-1101 .....	644
43 cm (17") stainless steel rigid probe with rotating mirror .....	3587
44201-0101 .....	399
44201-0102 .....	409
44202-0101 .....	404
44202-0102 .....	414
44401-0101 .....	439
44401-0102 .....	449
44401-0201 .....	361
44401-0202 .....	370
44402-0101 .....	444
44402-0102 .....	454
44402-0201 .....	366
44402-0202 .....	375
44601-0101 .....	419
44601-0102 .....	429
44602-0101 .....	424
44602-0102 .....	434
48001-1001 .....	655
48001-1101 .....	641
48201-1001 .....	616
48201-1101 .....	627
48201-1201 .....	647
5.8 mm (0.23") camera with 1 m (3.3') semi-rigid probe—VGA via long focus .....	3589
5.8 mm (0.23") camera with 1 m (3.3') semi-rigid probe—VGA via macro short focus .....	3591
5.8 mm (0.23") camera with 2 m (78") semi-rigid probe—VGA via long focus .....	3593



## Index

---

5.8 mm (0.23") camera with 2 m (78") semi-rigid probe—VGA via macro short focus .....	3595
5.8 mm cam with 20 m fiberglass-reinforced probe—QVGA via macro short focus .....	3597
5.8 mm camera with 30 m fiberglass-reinforced probe—QVGA via SF .....	3599
50 mm Lens .....	2659
500-0460-00 .....	3234
500-0461-00 .....	3230
500-0462-00 .....	3092
500-0463-00 .....	3090
500-0509-00 .....	3232
55001-0101 .....	776
55001-0102 .....	780
55001-0103 .....	784
55001-0104 .....	788
55001-0105 .....	792
55001-0201 .....	796
55001-0202 .....	800
55001-0203 .....	804
55001-0204 .....	808
55001-0205 .....	812
55001-0301 .....	816
55001-0302 .....	820
55001-0303 .....	824
55001-0304 .....	828
55001-0305 .....	832
55903-0922 .....	168
55903-1022 .....	174
55903-1522 .....	180
55903-2822 .....	186
55903-2922 .....	192
55903-3922 .....	204
55903-4022 .....	210
55903-5022 .....	216
55903-5122 .....	222
55903-5222 .....	228
55903-5622 .....	234
55903-5722 .....	240
55903-5822 .....	246
55903-8022 .....	198
55904-6222 .....	252
55904-6322 .....	258
55904-6422 .....	264
55904-6822 .....	288
55904-6922 .....	294
55904-7022 .....	300
55904-7422 .....	306
55904-7522 .....	312
55904-7622 .....	318
55904-7723 .....	324
55904-7823 .....	330
55904-7923 .....	336
55904-8023 .....	270
55904-8123 .....	276
55904-8223 .....	282
55904-8422 .....	342
55904-8522 .....	348
55904-8622 .....	354
57501-0102 .....	459
59601-0101 .....	379

## Index

---

59601-0102 .....	389
59602-0101 .....	384
59602-0102 .....	394
59801-0101 .....	468
59801-0102 .....	478
59802-0101 .....	473
59802-0102 .....	483
60101-0101 .....	18
60101-0201 .....	21
60901-1101 .....	747
60901-1102 .....	699
60901-1103 .....	715
60901-1104 .....	731
60901-1105 .....	763
60902-1101 .....	743
60902-1102 .....	695
60902-1103 .....	711
60902-1104 .....	727
60902-1105 .....	759
61001-1101 .....	755
61001-1102 .....	707
61001-1103 .....	723
61001-1104 .....	739
61001-1105 .....	771
61002-1101 .....	751
61002-1102 .....	703
61002-1103 .....	719
61002-1104 .....	735
61002-1105 .....	767
61201-1003 .....	659
61201-1004 .....	662
61201-1101 .....	677
61201-1102 .....	665
61201-1103 .....	669
61201-1104 .....	673
61201-1105 .....	681
61201-1203 .....	685
61201-1204 .....	688
61201-1205 .....	691
61301-0001 .....	2889
61301-0002 .....	2888
62103-1101 .....	101
62103-1102 .....	107
62103-1103 .....	113
62103-1205 .....	119
62103-1301 .....	143
62103-1501 .....	125
62103-1701 .....	149
62104-1903 .....	155
62104-2203 .....	131
62104-2204 .....	137
62104-2801 .....	161
62205-0101 .....	571
62205-0102 .....	578
62209-0101 .....	586
62309-0101 .....	544
62309-0102 .....	551
62319-0101 .....	537
62513-0101 .....	596
62513-0102 .....	600

## Index

---

62525-0101 .....	607
62613-0101 .....	593
62625-0101 .....	604
63209-0101 .....	563
63209-0102 .....	567
63219-0101 .....	559
63901-0101 .....	25
63902-0202 .....	31
63905-0501 .....	28
64205-0101 .....	575
64205-0102 .....	582
64209-0101 .....	590
64309-0101 .....	548
64309-0102 .....	555
64319-0101 .....	541
64501-0101 .....	45
64501-0103 .....	50
64501-0114 .....	55
64501-0201 .....	70
64501-0302 .....	85
64501-0402 .....	95
64501-0501 .....	60
64501-0601 .....	75
64501-0702 .....	90
64502-0801 .....	35
64502-1001 .....	40
64502-1101 .....	65
64502-1202 .....	80
65501-0101 .....	501
65501-0102 .....	504
65502-0101 .....	495
65502-0102 .....	498
65702-0102 .....	464
65801-0101 .....	837
65801-0202 .....	840
65901-0101 .....	843
66001-0101 .....	846
66101-0101 .....	849
66103-0202 .....	852
66201-0101 .....	855
66202-0202 .....	858
66301-0101 .....	861
66401-0101 .....	864
66501-0101 .....	867
66601-0101 .....	870
66602-0202 .....	873
66701-0101 .....	876
66702-0202 .....	879
66801-0101 .....	882
66802-0202 .....	885
66901-0101 .....	888
67904-0101 .....	891
68101-0101 .....	894
71001-1103 .....	635
71001-1104 .....	638
71201-0101 .....	611
71502-0101 .....	489
71502-0102 .....	492
72001-0101 .....	530
72002-0202 .....	533

## Index

---

72201-0106 .....	521
72201-0206 .....	525
8 mm (0.31") camera with 1 m (3.3') semi-rigid probe—VGA via long focus .....	3601
8 mm (0.31") camera with 2 m (6.6') semi-rigid probe—VGA via long focus .....	3603
908618 .....	4519, 4553
908929 .....	2879, 3058, 4520, 4554
<b>A</b>	
A/V Cable for Archos PVR.....	2670
AC Current Line splitter .....	3605
ADAPTER PLATE - PT-SERIES.....	3228
APP-10002 .....	1005, 1500, 1709, 1909, 2124, 2344, 2555, 2905, 3078, 3720, 3931, 4135
APP-10003 .....	1008, 1503, 1712, 1912, 2127, 2347, 2558, 2908, 3081, 3723, 3934, 4138
APP-10004 .....	1003, 1505, 2129, 2349, 3725, 3936, 4140
<b>B</b>	
Base support .....	2705
Battery .....	1176, 1305, 1429, 1674, 1874, 2080, 2696, 4355
Battery charger (Japan), incl. power supply .....	4316
Battery Charger (NiMH) .....	2675
Battery Charger for Li Ion Battery .....	2690
Battery charger incl power supply .....	1430
Battery charger, incl. power supply.....	4383, 4424
Battery charger, incl. power supply.....	4315
Battery charger, incl. power supply with multi plugs .....	2512, 3675, 3886, 4091
Battery charger, incl. power supply with multi plugs (Exx, Kxx) .....	1444, 2693
Battery P/S series .....	4385, 4426
Battery package .....	1179, 1308, 1677, 1877, 2081
Belt clip holster for TG165 .....	3607
Bluetooth Headset .....	1477, 2101, 2321, 3696, 3907, 4111
Bluetooth USB micro adapter .....	3698, 3909, 4113
<b>C</b>	
Cable kit Mains (UK,EU,US) .....	2706
Cable M12 Pigtail.....	2712
Cable M12 Sync .....	2713
Cable mains Europa .....	4327, 4386, 4427, 4547, 4649
Cable mains UK .....	4329, 4388, 4429, 4549, 4651
Cable mains USA .....	4328, 4387, 4428, 4548, 4650
Cable S-Video GasFindIR.....	2669
Cable, M12 to pigtail (FLIR AX series).....	2850
Cable-BNC 6FT .....	2667
Cable-RS-232 Remote.....	2668
Calibration including General maintenance A3xx, A3xxsc series .....	2917
Calibration including General maintenance A6xx, A6xxsc series (fixed cameras).....	3431
Calibration including General maintenance B2xx-B4xx series .....	1921
Calibration including General maintenance B6xx series .....	3939
Calibration including General maintenance bxx series .....	1334
Calibration including General maintenance Exx series .....	1510
Calibration including General maintenance GF3xx series .....	2567
Calibration including General maintenance ix series.....	1051
Calibration including General maintenance ixx series .....	1205
Calibration including General maintenance P6xx series .....	3728
Calibration including General maintenance SC6x0 series (handheld cameras).....	4149
Calibration including General maintenance T2xx-T4xx series .....	1721, 2132
Calibration including General maintenance T6xx series .....	2353
Camera handle .....	4399, 4439, 4515
Camera pouch for E Series, InfraCAM/BCAM, FLIR i/bxx.....	1187, 1316, 4305

Car charger .....	1031, 1431
Cardboard box for A3xx, A3xxsc, A6xx and A6xxsc series .....	2886, 3406
CAT IV Insulated Alligator Probes .....	3608
CAT IV Silicone Test Leads.....	3610
Certification DIN EN ISO 9712 TT Category 1 .....	1052, 1511, 1722, 1922, 2133, 2355, 3729, 3940, 4150, 4654
Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft. ....	1177, 1306, 1469, 1675, 1875, 2091, 2305, 2524, 3687, 3898, 4103, 4395, 4435
Close-up 1× (25 µm) incl. case and mounting support for A3xx, A3xxsc .....	2865
Close-up 2× (50 µm) incl. case .....	1665, 1864, 2072, 2861
Close-up 4× (100 µm) incl. case .....	1663, 1862, 2070, 2859
Close-up IR lens 0.5X, f = 75 mm (fits 24° IR lens) for ThermoCAM and FLIR 600 series .....	3666, 3877, 4082
Close-up IR lens, 1.5× (25 µm) with case .....	2291, 3383
Close-up IR lens, 150 mm (FOV 64 mm/53 mm) .....	4377, 4418, 4641
Close-up IR lens, 2.9× (50 µm) with case .....	2283, 3375
Close-up IR lens, 34/100 .....	4509
Close-up IR lens, 5.8× (100 µm) with case .....	2285, 3377
CM78 .....	899
CM82 .....	901
CM83 .....	904
CM85 .....	907
Cooling bracket .....	2853

**D**

DIN EN ISO 9712 TT Category 1 Certification course, excl. Certification, 1 pers. ....	1054, 1513, 1724, 1924, 2135, 2357, 3731, 3942, 4152, 4656
DIN EN ISO 9712 TT Category 1 Certification course, excl. Certification, group up to 10 pers. ....	1056, 1515, 1726, 1926, 2137, 2359, 3733, 3944, 4154, 4658
DM92 .....	910
DM93 .....	913
DR 11 NiMH Battery .....	2672
DSW-10000 .....	959, 1195, 1324, 1496, 1705, 1905, 2120, 2340, 2551, 2726, 2901, 3074, 3420, 3716, 3927, 4131, 4411, 4524, 4558

**E**

Ethernet cable CAT-6, 2m/6.6 ft. ....	2703, 2880, 3059, 3400
Ethernet cable, 2 m/6.6 ft. ....	4521, 4555
Ethernet cable, 2 m/6.6 ft, crossed .....	4522, 4556
Ethernet cable, CAT5, crossover, 2.0 m/6.6 ft.....	4517, 4551
Ethernet cable, M12 to RJ45 .....	2851
EVA Protective Case .....	3612
EXT-WAR-GCAM .....	2663
EXT-WAR-GCAM-LW .....	2666
Extension cable for remote control, 5.0 m/16.4 ft.....	4396, 4436

**F**

Filter holder for A6xx lenses .....	3408
FireWire™ cable 4/4 2 m/6.6 ft. ....	4391, 4432
FireWire™ cable 4/6 2 m/6.6 ft. ....	4392, 4433
FireWire cable 4/6, 2.0 m/6.6 ft. ....	3690, 3901, 4106
FireWire™ cable 6/6, 2 m/6.6 ft, with screw locking .....	4518, 4552
FireWire cable 6/6, 2.0 m/6.6 ft. ....	3691, 3902, 4107
Fixed Housing for A3xx 25°/45°/90° .....	2888
Fixed Housing for A3XX 7°/15° .....	2889
FLIR A15 f=19 mm .....	537
FLIR A15 f=19 mm (7.5 Hz) .....	541
FLIR A15 f=9 mm .....	544
FLIR A15 f=9 mm (7.5 Hz) .....	548
FLIR A15 f=9 mm with SC kit .....	551
FLIR A15 f=9 mm with SC kit (7.5 Hz) .....	555

FLIR A300.....	616
FLIR A300 (9 Hz) .....	620
FLIR A300f 25° .....	659
FLIR A300f 45° .....	662
FLIR A305sc .....	624
FLIR A310.....	627
FLIR A310 (9 Hz) .....	631
FLIR A310 ex 25° .....	635
FLIR A310 ex 45° .....	638
FLIR A310f 15° .....	665
FLIR A310f 25° .....	669
FLIR A310f 45° .....	673
FLIR A310f 6° .....	677
FLIR A310f 90° .....	681
FLIR A310pt 15° (9 Hz) NTSC.....	695
FLIR A310pt 15° (9 Hz) PAL .....	699
FLIR A310pt 15° NTSC .....	703
FLIR A310pt 15° PAL .....	707
FLIR A310pt 25° (9 Hz) NTSC.....	711
FLIR A310pt 25° (9 Hz) PAL .....	715
FLIR A310pt 25° NTSC .....	719
FLIR A310pt 25° PAL .....	723
FLIR A310pt 45° (9 Hz) NTSC.....	727
FLIR A310pt 45° (9 Hz) PAL .....	731
FLIR A310pt 45° NTSC .....	735
FLIR A310pt 45° PAL .....	739
FLIR A310pt 6° (9 Hz) NTSC .....	743
FLIR A310pt 6° (9 Hz) PAL .....	747
FLIR A310pt 6° NTSC.....	751
FLIR A310pt 6° PAL.....	755
FLIR A310pt 90° (9 Hz) NTSC.....	759
FLIR A310pt 90° (9 Hz) PAL .....	763
FLIR A310pt 90° NTSC .....	767
FLIR A310pt 90° PAL .....	771
FLIR A315.....	641
FLIR A315 (9 Hz) .....	644
FLIR A315f 25° .....	685
FLIR A315f 45° .....	688
FLIR A315f 90° .....	691
FLIR A320 Tempscreen.....	647
FLIR A320 Tempscreen (9 Hz) .....	651
FLIR A325sc .....	655
FLIR A35 f=19 mm .....	559
FLIR A35 f=9 mm.....	563
FLIR A35 f=9 mm with SC kit .....	567
FLIR A5 f=5 mm .....	571
FLIR A5 f=5 mm (7.5 Hz) .....	575
FLIR A5 f=5 mm with SC kit .....	578
FLIR A5 f=5 mm with SC kit (7.5 Hz) .....	582
FLIR A5 f=9 mm .....	586
FLIR A5 f=9 mm (7.5 Hz) .....	590
FLIR A615 15° .....	776
FLIR A615 25° .....	780
FLIR A615 45° .....	784
FLIR A615 7° .....	788
FLIR A615 windowing 80° .....	792
FLIR A645sc 15° .....	796
FLIR A645sc 25° .....	800
FLIR A645sc 45° .....	804
FLIR A645sc 7° .....	808

FLIR A645sc 80° .....	812
FLIR A65 f=13 mm .....	593
FLIR A65 f=13 mm (7.5 Hz) .....	596
FLIR A65 f=13 mm with SC kit (7.5 Hz) .....	600
FLIR A65 f=25 mm .....	604
FLIR A65 f=25 mm (7.5 Hz) .....	607
FLIR A655sc 15° .....	816
FLIR A655sc 25° .....	820
FLIR A655sc 45° .....	824
FLIR A655sc 7° .....	828
FLIR A655sc 80° .....	832
FLIR AX8 9 Hz .....	611
FLIR BHP SDK.....	958
FLIR C2.....	530
FLIR C2 with educational kit .....	533
FLIR CM78 .....	899
FLIR CM82: 600 Amp Power Clamp Meter with VFD Mode .....	901
FLIR CM83 .....	904
FLIR CM85: 1000 Amp Power Clamp Meter with VFD Mode and METERLiNK™ .....	907
FLIR DM92: Industrial Digital Multimeter with LoZ and VFD Mode.....	910
FLIR DM93 .....	913
FLIR E33 .....	35
FLIR E4 .....	25
FLIR E40 .....	40
FLIR E40 (incl. Wi-Fi).....	45
FLIR E40 with SC kit (incl. Wi-Fi and 45° lens) .....	50
FLIR E40 with SC kit (incl. Wi-Fi) .....	55
FLIR E40bx (incl. Wi-Fi).....	60
FLIR E5 .....	28
FLIR E50 .....	65
FLIR E50 (incl. Wi-Fi).....	70
FLIR E50bx (incl. Wi-Fi).....	75
FLIR E6 .....	31
FLIR E60 .....	80
FLIR E60 (incl. Wi-Fi).....	85
FLIR E60bx (incl. Wi-Fi).....	90
FLIR E63 (incl. Wi-Fi).....	95
FLIR G300 a 14.5° fixed lens .....	489
FLIR G300 a 24° fixed lens.....	492
FLIR G300 pt 14.5° NTSC.....	495
FLIR G300 pt 14.5° PAL.....	501
FLIR G300 pt 24° NTSC .....	498
FLIR G300 pt 24° PAL .....	504
FLIR GF300 14.5°.....	361
FLIR GF300 14.5° Fixed lens .....	366
FLIR GF300 24° .....	370
FLIR GF300 24° Fixed lens .....	375
FLIR GF304 14.5° .....	379
FLIR GF304 14.5° Fixed lens.....	384
FLIR GF304 24° .....	389
FLIR GF304 24° Fixed lens .....	394
FLIR GF306 14.5°.....	399
FLIR GF306 14.5° Fixed lens.....	404
FLIR GF306 24° .....	409
FLIR GF306 24° Fixed lens .....	414
FLIR GF309 14.5°.....	419
FLIR GF309 14.5° Fixed lens.....	424
FLIR GF309 24° .....	429
FLIR GF309 24° Fixed lens .....	434
FLIR GF320 14.5°.....	439

FLIR GF320 14.5° Fixed lens .....	444
FLIR GF320 24° .....	449
FLIR GF320 24° Fixed lens .....	454
FLIR GF335 24° .....	459
FLIR GF343 24° Fixed lens .....	464
FLIR GF346 14.5° .....	468
FLIR GF346 14.5° Fixed lens .....	473
FLIR GF346 24° .....	478
FLIR GF346 24° Fixed lens .....	483
FLIR i3 .....	18
FLIR i5 .....	21
FLIR IM75: Insulation Tester and Digital Multimeter with VFD Mode and METERLiNK .....	916
FLIR IR Camera Player .....	959, 1195, 1324, 1496, 1705, 1905, 2120, 2340, 2551, 2726, 2901, 3074, 3420, 3716, 3927, 4131, 4411, 4524, 4558
FLIR K45 .....	521
FLIR K55 .....	525
FLIR MR77 .....	919
FLIR Platinum SDK .....	963
FLIR Reporter Professional (license only) .....	964, 1042, 1189, 1192, 1318, 1321, 1479, 1482, 1688, 1691, 1888, 1891, 2103, 2106, 2323, 2326, 2531, 2534, 3699, 3702, 3910, 3913, 4114, 4117, 4352, 4356, 4362, 4365, 4405, 4408, 4445, 4448
FLIR ResearchIR Max + HSDR 4 .....	967, 970, 1202, 1331, 1717, 1917, 4531, 4565
FLIR ResearchIR Max + HSDR 4 Upgrade .....	973
FLIR ResearchIR Max 4 .....	976, 979, 1199, 1328, 1714, 1914, 4528, 4562
FLIR ResearchIR Max 4 Upgrade .....	982
FLIR ResearchIR Standard 4 .....	985, 988
FLIR ResearchIR Standard 4 Upgrade .....	991
FLIR SC7100 SW .....	891
FLIR SC7200 .....	894
FLIR SC7210 .....	837
FLIR SC7300 LW .....	843
FLIR SC7300 MW .....	846
FLIR SC7500 .....	840
FLIR SC7600 .....	849
FLIR SC7600 Cooling Fan .....	852
FLIR SC7650 .....	855
FLIR SC7650 E .....	858
FLIR SC7700 .....	861
FLIR SC7700 MW .....	864
FLIR SC7750 LW .....	867
FLIR Sensors Manager, pro .....	994, 3093, 3236
FLIR T420 (incl. Wi-Fi and 15° lens) .....	107
FLIR T420 (incl. Wi-Fi and 45° lens) .....	113
FLIR T420 (incl. Wi-Fi) .....	101
FLIR T420 with SC kit (incl. Wi-Fi, incl. 45° lens) .....	119
FLIR T420bx (incl. Wi-Fi) .....	125
FLIR T430sc (incl. Wi-Fi) .....	131
FLIR T430sc with SC kit (incl. Wi-Fi) .....	137
FLIR T440 (incl. Wi-Fi) .....	143
FLIR T440bx (incl. Wi-Fi) .....	149
FLIR T450sc (incl. Wi-Fi) .....	155
FLIR T460 (incl. Wi-Fi) .....	161
FLIR T600 15° (incl. Wi-Fi) .....	168
FLIR T600 25° (incl. Wi-Fi) .....	174
FLIR T600 45° (incl. Wi-Fi) .....	180
FLIR T600bx 25° (incl. Wi-Fi) .....	186
FLIR T600bx 45° (incl. Wi-Fi) .....	192
FLIR T610 15° (incl. Wi-Fi) .....	198
FLIR T610 25° (incl. Wi-Fi) .....	204



## Index

---

FLIR T610 45° (incl. Wi-Fi) .....	210
FLIR T620 15° (incl. Wi-Fi) .....	216
FLIR T620 25° (incl. Wi-Fi) .....	222
FLIR T620 45° (incl. Wi-Fi) .....	228
FLIR T620bx 15° (incl. Wi-Fi) .....	234
FLIR T620bx 25° (incl. Wi-Fi) .....	240
FLIR T620bx 45° (incl. Wi-Fi) .....	246
FLIR T630 15° (incl. Wi-Fi) .....	252
FLIR T630 25° (incl. Wi-Fi) .....	258
FLIR T630 45° (incl. Wi-Fi) .....	264
FLIR T630sc 15° (incl. Wi-Fi) .....	270
FLIR T630sc 25° (incl. Wi-Fi) .....	276
FLIR T630sc 45° (incl. Wi-Fi) .....	282
FLIR T640 15° (incl. Wi-Fi) .....	288
FLIR T640 25° (incl. Wi-Fi) .....	294
FLIR T640 45° (incl. Wi-Fi) .....	300
FLIR T640bx 15° (incl. Wi-Fi) .....	306
FLIR T640bx 25° (incl. Wi-Fi) .....	312
FLIR T640bx 45° (incl. Wi-Fi) .....	318
FLIR T650sc 15° (incl. Wi-Fi) .....	324
FLIR T650sc 25° (incl. Wi-Fi) .....	330
FLIR T650sc 45° (incl. Wi-Fi) .....	336
FLIR T660 15° (incl. Wi-Fi) .....	342
FLIR T660 25° (incl. Wi-Fi) .....	348
FLIR T660 45° (incl. Wi-Fi) .....	354
FLIR TG165: Imaging IR Thermometer .....	922
FLIR Tools.....	997, 1485, 1694, 1894,
2109, 2329, 2537, 2715, 2890, 3063, 3409, 3705, 3916, 4120	
FLIR Tools (MacOS Application).....	1003, 1505, 2129, 2349, 3725, 3936, 4140
FLIR Tools Mobile (Android Application).....	1005, 1500,
1709, 1909, 2124, 2344, 2555, 2905, 3078, 3720, 3931, 4135	
FLIR Tools Mobile (iPad/iPhone Application) .....	1008, 1503,
1712, 1912, 2127, 2347, 2558, 2908, 3081, 3723, 3934, 4138	
FLIR Tools+ (license only).....	1010, 1045, 1435, 1491, 1700, 1900,
2115, 2335, 2543, 2721, 2896, 3069, 3415, 3711, 3922, 4126	
FLIR VideoReport.....	1015, 2548
FLIR VP50 .....	925
FLIR VP52 .....	927
FLIR VS70: General Purpose (Wired) Long Focus Videoscope Combo.....	931
FLIR VS70: Small Opening Short Focus Videoscope Combo .....	938
FLIR VS70: Starter Bundle w Articulation and extra camera Videoscope Kit .....	948
FLIR VS70: Videoscope Main Unit .....	929
FLIR VS70: Wired Articulation Camera Videoscope Combo.....	941
FLIR VS70: Wireless Articulation Camera Videoscope Combo .....	944
FLIR VS70: Wireless Bundle w wireless Articulation and extra camera Videoscope Kit .....	952
FLIR VS70: Wireless General Purpose Videoscope Combo .....	934
FLIR X6530sc.....	870
FLIR X6530sc M80 .....	873
FLIR X6540sc.....	876
FLIR X6540sc M80 .....	879
FLIR X6580sc.....	882
FLIR X6580sc M80 .....	885
FLIR X8400sc.....	888
Focus adjustment tool.....	2714
Furnace IR lens extender, 14.5° with case for GF309 .....	2510
Furnace IR lens extender, 24° with case for GF309 .....	2511

## G

General Purpose Accessory Case .....	3613
--------------------------------------	------

---

Gigabit PoE injector 16 W, with multi-plugs ..... 2711

**H**

Hand strap ..... 4308

Hard case - PT-SERIES ..... 3235

HARD CASE - WITH FOAM, F - SERIES ..... 3089

Hard Transport Case ..... 2673

Hard transport case for A3xx, A3xxsc, A6xx and A6xxsc series ..... 2884, 3404

Hard transport case for Ex ..... 1428

Hard transport case for FLIR B/P/SC6xx ..... 3692, 3903, 4108

Hard transport case for FLIR GF3xx-Series ..... 2528

Hard transport case for FLIR T/B2xx-4xx ..... 1685, 1885, 2094

Hard transport case for i/b40-60 ..... 1188, 1317

Hard transport case for ix ..... 1027

Hard transport case for T6xx series ..... 2311

Hard transport case for ThermoCAM™ E Series ..... 4318

Hard transport case for ThermoCAM™ P/S Series ..... 4360, 4403

Hard transport case for ThermoCAM™ SC3000 ..... 4444

Hard transport case for ThermoVision™ A20 Series ..... 4523

Hard transport case for ThermoVision™ A40 Series ..... 4557

HDMI to DVI cable 1.5 m ..... 2527

HDMI to HDMI cable 1.5 m ..... 2526

HDMI type C to DVI cable 1.5 m ..... 2307

HDMI type C to HDMI type A cable 1.5 m ..... 2309

Headset ..... 4398, 4438

Headset, 3.5 mm plug ..... 3694, 3905, 4109

Heat Shield for FLIR GF309 ..... 2530

High speed option ..... 4514

High temp option +300°C to 2000°C (+572°F to 3632°F) for FLIR A6xxsc and T6xx ..... 2293, 3385

High temp. option +1200°C/+2192°F for E300/E320 ULIS ver. .... 4323

High temp. option +1200°C/+2192°F for FLIR T/B2xx to T/B4xx and A3xx, A3xxf, A3xxpt, A3xxsc series ..... 1672, 1871, 2078, 2867, 3054, 3226

High temp. option +350°C/+662°F for FLIR B2xx to B4xx Series ..... 1873

High temp. option +900°C/+1652°F for E series 160x120 ..... 4312, 4545

High temperature option +1000°C/+1832°F ..... 4382, 4423, 4647

High temperature option +1500°C/+2732°F ..... 3674, 3885, 4090, 4380, 4421, 4645

High temperature option +2000°C/+3632°F ..... 3673, 3884, 4089, 4381, 4422, 4511, 4646

**I**

IM75 ..... 916

Impact Pin Moisture Probe ..... 3615

In-truck charger ..... 2694

IR lens for 160x120, f = 87 mm (5/3.8), incl. case ..... 4317

IR lens, 14° for E320/E300/B4, incl. case ..... 4326

IR lens, 14.5° with case for GF300, GF309, GF320 ..... 2505

IR lens, 14.5° with case for GF304, GF306 ..... 2507

IR lens, 14.5° with case for GF335, GF346 ..... 2509

IR lens, 15° for EX320/EX300/BX320, incl. case ..... 4320

IR lens, 2.5° ..... 4506

IR lens, 23° for E320/E300/B4, incl. case ..... 4324

IR lens, 24° with case for GF300, GF309, GF320 ..... 2503

IR lens, 24° with case for GF304, GF306 ..... 2506

IR lens, 24° with case for GF335, GF346 ..... 2508

IR lens, 25° for EX320/EX300/BX320, incl. case ..... 4322

IR lens, 4 mm (90°) with case and mounting support for A3xx, A3xxsc ..... 2864

IR lens, 4 mm (90°) with case and mounting support for T/B2xx-4xx ..... 1669, 1868, 2076

IR lens, 41° for E320/E300/B4, incl. case ..... 4325

IR lens, 45° for EX320/EX300/BX320, incl. case ..... 4321

## Index

---

IR lens, 5° .....	4507
IR lens, 6° with case for GF300, GF309, GF320, GF346. ....	2504
IR lens, 60° .....	4508
IR lens, 76 mm (6°) with case and mounting support for A3xx, A3xxsc .....	2863
IR lens, 76 mm (6°) with case and mounting support for Exx .....	1507
IR lens, 76 mm (6°) with case and mounting support for T/B-200/400.....	1667, 1866, 2074
IR lens, f = 10 mm, 45° incl. case.....	1464, 1661, 1860, 2068, 2857
IR lens, f = 124 mm (7°) .....	4644
IR lens, f = 124 mm (7°/5.75°) P/S Series .....	4374, 4415
IR lens, f = 131 mm, 7°, incl. case for FLIR 600 series.....	3668, 3879, 4084
IR lens, f = 17 mm (25°/18.9°) .....	4309
IR lens, f = 17 mm (25°/18.9°), without case.....	4536
IR lens, f = 18 mm (45°/37°) .....	4376, 4417, 4640
IR lens, f = 19 mm, 45°, incl. case for FLIR 600 series.....	3669, 3880, 4085
IR lens, f = 30 mm, 15° incl. case.....	1462, 1659, 1858, 2066, 2855
IR lens, f = 36 mm (12°/9.1°) .....	4310
IR lens, f = 36 mm (12°/9.1°), without case .....	4534
IR lens, f = 38 mm, 24°, incl. case for FLIR 600 series.....	3670, 3881, 4086
IR lens, f = 4,5 mm (80°/60°) .....	4543
IR lens, f = 4,5 mm (80°/60°), with case .....	4544
IR lens, f = 54 mm (8°/6°) .....	4542
IR lens, f = 54 mm (8°/6°), with case.....	4537
IR lens, f = 72 mm (12°/10°) .....	4375, 4416, 4505, 4639
IR lens, f = 76 mm, 12°, incl. case for FLIR 600 series.....	3667, 3878, 4083
IR lens, f = 87 mm (5°/3.8°), with case .....	4538
IR lens, f = 9.2 mm (45°/34.1°).....	4311
IR lens, f = 9.2 mm (45°/34.1°), without case.....	4535
IR lens, f=13.1 mm (45°) with case .....	2281, 3373
IR lens, f=24.6 mm (25°) with case .....	2279, 3371
IR lens, f=41.3 mm (15°) with case .....	2277, 3369
IR lens, f=6.5 mm (80°) with case .....	2289, 3379
IR lens, f=88.9 mm (7°) with case and support for A6xx/A6xxsc.....	3381
IR lens, f=88.9 mm (7°) with case and support for T6xx .....	2287
IR Window 2 in. ....	1032, 1170, 1299, 1450, 1653, 1852, 2054, 2265, 3654, 3865, 4070
IR Window 3 in. ....	1034, 1172, 1301, 1452, 1655, 1854, 2056, 2267, 3656, 3867, 4072
IR Window 4 in. ....	1036, 1174, 1303, 1454, 1657, 1856, 2058, 2269, 3658, 3869, 4074
ITC Advanced Building – attendance 1 pers .....	1335, 1517, 1928, 2361, 3946, 4660
ITC Advanced Building – group of 10 pers. ....	1337, 1519, 1930, 2363, 3948, 4662
ITC Advanced Furnace Application Course - additional student to on site class .....	2569, 4368, 4664
ITC Advanced Furnace Application Course - attendance, 1 pers. (3 days).....	2571, 4370, 4666
ITC Advanced Furnace Applications Course - group up to 10 pers. (3 days).....	2573, 4668
ITC Advanced Furnace Applications Course - group up to 6 persons (3 days).....	2574, 4372, 4669
ITC Advanced Gas Detection Course – group of 10 pers. ....	2582, 2682, 4677
ITC Advanced Gas Detection Course - additional student to on site class, 1 pers. ....	2576, 2676, 4671
ITC Advanced Gas Detection Course - attendance, 1 pers. ....	2579, 2679, 4674
ITC Advanced Gas Detection Course - group of up to 6 pers. (3 days).....	2585, 2685, 4680
ITC Advanced General Thermography Course - attendance, 1 pers. ....	1206, 1339, 1521, 1728, 1932, 2139, 2365, 2730, 2918, 3096, 3239, 3432, 3735, 3950, 4156, 4451, 4568, 4683
ITC Advanced General Thermography Course- group of 10 pers. ....	1210, 1343, 1525, 1732, 1936, 2143, 2369, 2734, 2922, 3100, 3243, 3436, 3739, 3954, 4160, 4455, 4572, 4687

ITC Advanced Thermal applications course - attendance 1 pers. (3 days).....	2373, 2926, 3104, 3247, 3440, 3743, 4164, 4691
ITC Advanced Thermal applications course - group up to 10 pers. (3 days).....	2376, 2929, 3107, 3250, 3443, 3746, 4167, 4694
ITC Advanced Thermal measurements (R&D) - attendance 1 pers. (2 days).....	2932, 3446, 4170, 4697
ITC Advanced Thermal Measurements (R&D) - group up to 6 pers. (2 days).....	2934, 3448, 4172, 4699
ITC Advanced training - group of max. 6 pers, additional day 3 for on-site training, .....	2936, 3450, 4174, 4701
ITC Advanced training - group of max. 6 pers, additional day 4 for on-site training .....	2588, 2688, 4703
ITC Automated safety systems training - attendance 1 pers (3 days).....	3110, 3253, 4705
ITC Automated safety systems training - group of up to 10 pers (3 days) .....	3112, 3255, 4707
ITC conference fee.....	1058, 1529, 1736, 1940, 2147, 2379, 2590, 2738, 2938, 3114, 3257, 3452, 3749, 3958, 4176, 4331, 4709
ITC Customized workshop - per person (per day) .....	2593, 2741, 2941, 3117, 3260, 3455, 4179, 4459, 4576, 4712
ITC Getting Started with Thermography - attendance, 1 pers. ....	1061, 1532, 1739, 1943, 2150, 2382, 3752, 3961, 4182, 4715
ITC Getting Started with Thermography (evening or weekend) - attendance, 1 pers. ....	1063, 1534, 1741, 1945, 2152, 2384, 3754, 3963, 4184, 4717
ITC In-house R&D training ATS products - group up to 4 pers. (2 days).....	2947, 3461, 4189, 4722
ITC In-house training - additional attendance 1 pers. (per day) .....	1065, 1214, 1347, 1536, 1743, 1947, 2154, 2386, 2599, 2747, 2949, 3123, 3266, 3463, 3756, 3965, 4191, 4465, 4579, 4724
ITC In-house training - group up to 10 pers. (per day) .....	1069, 1218, 1351, 1540, 1747, 1951, 2158, 2390, 2603, 2751, 2953, 3127, 3270, 3467, 3760, 3969, 4195, 4469, 4583, 4728
ITC Infrared application and system consultancy (per day).....	2596, 2744, 2944, 3120, 3263, 3458, 4186, 4462, 4719
ITC Level 1 Thermography Course – group of 10 pers. ....	1081, 1230, 1363, 1552, 1759, 1963, 2170, 2402, 2763, 2965, 3139, 3282, 3479, 3772, 3981, 4207, 4481, 4595, 4740
ITC Level 1 Thermography Course - additional student to on site class, 1 pers .....	1073, 1222, 1355, 1544, 1751, 1955, 2162, 2394, 2755, 2957, 3131, 3274, 3471, 3764, 3973, 4199, 4473, 4587, 4732
ITC Level 1 Thermography Course - attendance, 1 pers.....	1077, 1226, 1359, 1548, 1755, 1959, 2166, 2398, 2759, 2961, 3135, 3278, 3475, 3768, 3977, 4203, 4477, 4591, 4736
ITC Level 2 Thermography Course – group of 10 pers. ....	1242, 1375, 1564, 1771, 1975, 2182, 2414, 2775, 2977, 3151, 3294, 3491, 3784, 3993, 4219, 4493, 4607, 4752
ITC Level 2 Thermography Course - additional student to on site class, 1 pers .....	1234, 1367, 1556, 1763, 1967, 2174, 2406, 2767, 2969, 3143, 3286, 3483, 3776, 3985, 4211, 4485, 4599, 4744
ITC Level 2 Thermography Course - attendance, 1 pers.....	1238, 1371, 1560, 1767, 1971, 2178, 2410, 2771, 2973, 3147, 3290, 3487, 3780, 3989, 4215, 4489, 4603, 4748
ITC Practical Course - Solar panel inspection - attendance, 1 pers (2 days).....	1085, 1246, 1568, 1775, 2186, 2418, 3788, 4223, 4756
ITC Practical Course - Solar panel inspection - group up to 10 pers (2 days).....	1088, 1249, 1571, 1778, 2189, 2421, 3791, 4226, 4759
ITC R&D basics for industry users - group up to 6 pers. (2 days) .....	2779, 2981, 3155, 3298, 3495, 4229, 4611, 4762
ITC Short course building thermography - inclusive 10 pers. (2 days).....	1091, 1379, 1574, 1979, 2424, 3997, 4765

ITC Short course building thermography -attendance 1 pers. (2 days).....	1093, 1381, 1576, 1981, 2426, 3999, 4767
ITC Short course electrical thermography - attendance 1 pers. (2 days) .....	1095, 1252, 1578, 1781, 2192, 2428, 3794, 4232, 4769
ITC Short course electrical thermography - inclusive 10 pers. (2 days) .....	1098, 1255, 1581, 1784, 2195, 2431, 3797, 4235, 4772
ITC Short course Fever Screening - additional student to on site class (2 days).....	2782, 2984, 3158, 3301, 3498, 4614, 4775
ITC Short course Fever Screening - attendance 1 pers. (2 days).....	2785, 2987, 3161, 3304, 3501, 4617, 4778
ITC Short course Fever Screening - inclusive 10 pers. (2 days).....	2788, 2990, 3164, 3307, 3504, 4620, 4781
ITC Short course HVAC and plumbing - attendance 1 pers (2 days).....	1101, 1383, 1584, 1983, 2434, 4001, 4784
ITC Short course HVAC and plumbing - group up to 10 pers (2 days) .....	1103, 1385, 1586, 1985, 2436, 4003, 4786
ITC Short course Introduction to thermography -inclusive 10 pers. (1 day).....	1105, 1258, 1387, 1588, 1787, 1987, 2198, 2438, 2791, 2993, 3167, 3310, 3507, 3800, 4005, 4238, 4623, 4788
ITC Short course Introduction to thermography -attendance 1 pers. (1 day) .....	1109, 1262, 1391, 1592, 1791, 1991, 2202, 2442, 2795, 2997, 3171, 3314, 3511, 3804, 4009, 4242, 4627, 4792
ITC Short courses - group of max. 6 pers, additional day 3 for on-site training .....	3001, 3515, 4246, 4796
ITC Software course - attendance 1 pers. (per day) .....	1113, 1266, 1395, 1596, 1795, 1995, 2206, 2446, 2607, 2799, 3003, 3175, 3318, 3517, 3808, 4013, 4248, 4497, 4631, 4798
ITC Software course - group up to 10 pers. (per day).....	1117, 1270, 1399, 1600, 1799, 1999, 2210, 2450, 2611, 2803, 3007, 3179, 3322, 3521, 3812, 4017, 4252, 4501, 4635, 4802
ITC Training 1 day - attendance 1 pers. ....	1121, 1274, 1403, 1604, 1803, 2003, 2214, 2454, 2615, 2807, 3011, 3183, 3326, 3525, 3816, 4021, 4256, 4806
ITC Training 1 day - group up to 10 pers. ....	1125, 1278, 1407, 1608, 1807, 2007, 2218, 2458, 2619, 2811, 3015, 3187, 3330, 3529, 3820, 4025, 4260, 4810
ITC Training 2 days - attendance 1 pers. ....	1129, 1282, 1411, 1612, 1811, 2011, 2222, 2462, 2623, 2815, 3019, 3191, 3334, 3533, 3824, 4029, 4264, 4814
ITC Training 2 days - group up to 10 pers. ....	1133, 1286, 1415, 1616, 1815, 2015, 2226, 2466, 2627, 2819, 3023, 3195, 3338, 3537, 3828, 4033, 4268, 4818
ITC Training 3 days - attendance 1 pers. ....	1137, 1290, 1419, 1620, 1819, 2019, 2230, 2470, 2631, 2823, 3027, 3199, 3342, 3541, 3832, 4037, 4272, 4822
ITC Training 3 days - group up to 10 pers. ....	1141, 1294, 1423, 1624, 1823, 2023, 2234, 2474, 2635, 2827, 3031, 3203, 3346, 3545, 3836, 4041, 4276, 4826
ITC Training FLIR Software - attendance 1 pers. (1 day) .....	1145, 1628, 1827, 2027, 2238, 2478, 3840, 4045, 4280, 4830
ITC Training FLIR Software - attendance 1 pers. (2 days) .....	1147, 1630, 1829, 2029, 2240, 2480, 3842, 4047, 4282, 4832
ITC travel time for instructor .....	1149, 1632, 1831, 2031, 2242, 2482, 2639, 2831, 3035, 3207, 3350, 3549, 3844, 4049, 4284, 4334, 4834
ITC-ADV-3006 .....	2936, 3450, 4174, 4701
ITC-ADV-3011 .....	1335, 1517, 1928, 2361, 3946, 4660
ITC-ADV-3019 .....	1337, 1519, 1930, 2363, 3948, 4662
ITC-ADV-3021 .....	1206, 1339, 1521, 1728, 1932, 2139, 2365, 2730, 2918, 3096, 3239, 3432, 3735, 3950, 4156, 4451, 4568, 4683
ITC-ADV-3029 .....	1210, 1343, 1525, 1732, 1936, 2143, 2369, 2734, 2922, 3100, 3243, 3436, 3739, 3954, 4160, 4455, 4572, 4687
ITC-ADV-3031 .....	2579, 2679, 4674
ITC-ADV-3035 .....	2576, 2676, 4671
ITC-ADV-3036 .....	2585, 2685, 4680
ITC-ADV-3039 .....	2582, 2682, 4677
ITC-ADV-3041 .....	2932, 3446, 4170, 4697

---

ITC-ADV-3046 .....	2934, 3448, 4172, 4699
ITC-ADV-3051 .....	2571, 4370, 4666
ITC-ADV-3055 .....	2569, 4368, 4664
ITC-ADV-3056 .....	2574, 4372, 4669
ITC-ADV-3059 .....	2573, 4668
ITC-ADV-3061 .....	2373, 2926, 3104, 3247, 3440, 3743, 4164, 4691
ITC-ADV-3069 .....	2376, 2929, 3107, 3250, 3443, 3746, 4167, 4694
ITC-ADV-4006 .....	2588, 2688, 4703
ITC-AUT-3101 .....	3110, 3253, 4705
ITC-AUT-3109 .....	3112, 3255, 4707
ITC-CER-5101 .....	1077, 1226, 1359, 1548, 1755, 1959, 2166, 2398, 2759, 2961, 3135, 3278, 3475, 3768, 3977, 4203, 4477, 4591, 4736
ITC-CER-5105 .....	1073, 1222, 1355, 1544, 1751, 1955, 2162, 2394, 2755, 2957, 3131, 3274, 3471, 3764, 3973, 4199, 4473, 4587, 4732
ITC-CER-5109 .....	1081, 1230, 1363, 1552, 1759, 1963, 2170, 2402, 2763, 2965, 3139, 3282, 3479, 3772, 3981, 4207, 4481, 4595, 4740
ITC-CER-5201 .....	1238, 1371, 1560, 1767, 1971, 2178, 2410, 2771, 2973, 3147, 3290, 3487, 3780, 3989, 4215, 4489, 4603, 4748
ITC-CER-5205 .....	1234, 1367, 1556, 1763, 1967, 2174, 2406, 2767, 2969, 3143, 3286, 3483, 3776, 3985, 4211, 4485, 4599, 4744
ITC-CER-5209 .....	1242, 1375, 1564, 1771, 1975, 2182, 2414, 2775, 2977, 3151, 3294, 3491, 3784, 3993, 4219, 4493, 4607, 4752
ITC-CER-6101 .....	1054, 1513, 1724, 1924, 2135, 2357, 3731, 3942, 4152, 4656
ITC-CER-6109 .....	1056, 1515, 1726, 1926, 2137, 2359, 3733, 3944, 4154, 4658
ITC-CON-1001 .....	1058, 1529, 1736, 1940, 2147, 2379, 2590, 2738, 2938, 3114, 3257, 3452, 3749, 3958, 4176, 4331, 4709
ITC-EXP-0511 .....	1061, 1532, 1739, 1943, 2150, 2382, 3752, 3961, 4182, 4715
ITC-EXP-0521 .....	1063, 1534, 1741, 1945, 2152, 2384, 3754, 3963, 4184, 4717
ITC-EXP-1001 .....	1121, 1274, 1403, 1604, 1803, 2003, 2214, 2454, 2615, 2807, 3011, 3183, 3326, 3525, 3816, 4021, 4256, 4806
ITC-EXP-1009 .....	1125, 1278, 1407, 1608, 1807, 2007, 2218, 2458, 2619, 2811, 3015, 3187, 3330, 3529, 3820, 4025, 4260, 4810
ITC-EXP-1011 .....	1109, 1262, 1391, 1592, 1791, 1991, 2202, 2442, 2795, 2997, 3171, 3314, 3511, 3804, 4009, 4242, 4627, 4792
ITC-EXP-1019 .....	1105, 1258, 1387, 1588, 1787, 1987, 2198, 2438, 2791, 2993, 3167, 3310, 3507, 3800, 4005, 4238, 4623, 4788
ITC-EXP-1021 .....	1065, 1214, 1347, 1536, 1743, 1947, 2154, 2386, 2599, 2747, 2949, 3123, 3266, 3463, 3756, 3965, 4191, 4465, 4579, 4724
ITC-EXP-1029 .....	1069, 1218, 1351, 1540, 1747, 1951, 2158, 2390, 2603, 2751, 2953, 3127, 3270, 3467, 3760, 3969, 4195, 4469, 4583, 4728
ITC-EXP-1041 .....	2593, 2741, 2941, 3117, 3260, 3455, 4179, 4459, 4576, 4712
ITC-EXP-1050 .....	2596, 2744, 2944, 3120, 3263, 3458, 4186, 4462, 4719
ITC-EXP-2001 .....	1129, 1282, 1411, 1612, 1811, 2011, 2222, 2462, 2623, 2815, 3019, 3191, 3334, 3533, 3824, 4029, 4264, 4814
ITC-EXP-2009 .....	1133, 1286, 1415, 1616, 1815, 2015, 2226, 2466, 2627, 2819, 3023, 3195, 3338, 3537, 3828, 4033, 4268, 4818
ITC-EXP-2011 .....	1093, 1381, 1576, 1981, 2426, 3999, 4767
ITC-EXP-2019 .....	1091, 1379, 1574, 1979, 2424, 3997, 4765
ITC-EXP-2021 .....	2785, 2987, 3161, 3304, 3501, 4617, 4778
ITC-EXP-2025 .....	2782, 2984, 3158, 3301, 3498, 4614, 4775
ITC-EXP-2029 .....	2788, 2990, 3164, 3307, 3504, 4620, 4781
ITC-EXP-2036 .....	2779, 2981, 3155, 3298, 3495, 4229, 4611, 4762
ITC-EXP-2041 .....	1095, 1252, 1578, 1781, 2192, 2428, 3794, 4232, 4769
ITC-EXP-2049 .....	1098, 1255, 1581, 1784, 2195, 2431, 3797, 4235, 4772
ITC-EXP-2061 .....	1101, 1383, 1584, 1983, 2434, 4001, 4784
ITC-EXP-2069 .....	1103, 1385, 1586, 1985, 2436, 4003, 4786
ITC-EXP-3001 .....	1137, 1290, 1419, 1620, 1819, 2019, 2230, 2470, 2631, 2823, 3027, 3199, 3342, 3541, 3832, 4037, 4272, 4822
ITC-EXP-3006 .....	3001, 3515, 4246, 4796

## Index

---

ITC-EXP-3009 .....	1141, 1294, 1423, 1624, 1823, 2023, 2234, 2474, 2635, 2827, 3031, 3203, 3346, 3545, 3836, 4041, 4276, 4826
ITC-FEE-0120 .....	1052, 1511, 1722, 1922, 2133, 2355, 3729, 3940, 4150, 4654
ITC-FEE-0130 .....	1152, 1635, 1834, 2034, 2245, 2485, 3847, 4052, 4287, 4837
ITC-PRA-2011 .....	1085, 1246, 1568, 1775, 2186, 2418, 3788, 4223, 4756
ITC-PRA-2019 .....	1088, 1249, 1571, 1778, 2189, 2421, 3791, 4226, 4759
ITC-PRO-2004 .....	2947, 3461, 4189, 4722
ITC-SOW-0001 .....	1113, 1266, 1395, 1596, 1795, 1995, 2206, 2446, 2607, 2799, 3003, 3175, 3318, 3517, 3808, 4013, 4248, 4497, 4631, 4798
ITC-SOW-0009 .....	1117, 1270, 1399, 1600, 1799, 1999, 2210, 2450, 2611, 2803, 3007, 3179, 3322, 3521, 3812, 4017, 4252, 4501, 4635, 4802
ITC-SOW-1001 .....	1145, 1628, 1827, 2027, 2238, 2478, 3840, 4045, 4280, 4830
ITC-SOW-2001 .....	1147, 1630, 1829, 2029, 2240, 2480, 3842, 4047, 4282, 4832
ITC-TFT-0100 .....	1149, 1632, 1831, 2031, 2242, 2482, 2639, 2831, 3035, 3207, 3350, 3549, 3844, 4049, 4284, 4334, 4834
ITC-TOL-1001 .....	1157, 1640, 1839, 2039, 2250, 2490, 2645, 2837, 3041, 3213, 3356, 3555, 3852, 4057, 4292, 4337, 4842
ITC-TOL-1002 .....	1163, 1646, 1845, 2045, 2256, 2496, 2651, 2843, 3047, 3219, 3362, 3561, 3858, 4063, 4298, 4340, 4848
ITC-TOL-1003 .....	1154, 1637, 1836, 2036, 2247, 2487, 2642, 2834, 3038, 3210, 3353, 3552, 3849, 4054, 4289, 4343, 4839
ITC-TOL-1004 .....	1166, 1649, 1848, 2048, 2259, 2499, 2654, 2846, 3050, 3222, 3365, 3564, 3861, 4066, 4301, 4346, 4851
ITC-TOL-1005 .....	1160, 1643, 1842, 2042, 2253, 2493, 2648, 2840, 3044, 3216, 3359, 3558, 3855, 4060, 4295, 4349, 4845

## J

JOYSTICK ASSY, NEXUS CONSOLE .....	3229
------------------------------------	------

## L

Large eyecup .....	2315
Lens BB 200 mm f/3 Bayonet .....	3568
Lens cap camera .....	1671, 1870
Lens Hood for 25mm Lens .....	2661
Lens Hood for 50mm Lens .....	2662
Lens SWB 100 mm f/3 Bayonet .....	3569
Lens SWB 27 mm f/3 Bayonet .....	3571
Lens SWB 50 mm f/3 Bayonet .....	3570
Li Ion Battery .....	2691
Li-Ion Battery pack 3.7V 17Wh .....	1446
Li-Ion Battery pack 3.7V 29Wh .....	2298
Li-Ion Battery pack 7.4V 33Wh .....	2517, 3680, 3891, 4096

## M

Macro lens, 1x (25 um) with case .....	3671, 3882, 4087
Magnetic Hanging Strap for DM9x, IM7x Series .....	3617
Memory card micro-SD with adapters .....	1038
Memory card SDHC 4 GB .....	1471, 2086, 2300, 2519, 3682, 3893, 4098
Microscope IR lens, 10/26, and close-up IR lens, 34/100 .....	4510
Motor focus for IR lens, f = 36 mm, 9.2 mm and 17 mm .....	4541
MR01 .....	3625
MR02 .....	3623
MR05 .....	3615
MR10 .....	3612
MR77 .....	919

## N

Neck strap .....	2099, 2319, 2697
------------------	------------------

## O

One year extended warranty for A3xx, A3xxsc series .....	2916
--	------

## Index

---

One year extended warranty for A6xx, A6xxsc series .....	3430
One year extended warranty for B2xx-4xx series .....	1920
One year extended warranty for B6xx series .....	3938
One year extended warranty for Exx series .....	1509
One year extended warranty for GasFindIR LW .....	2666
One year extended warranty for GF3xx series .....	2566
One Year Extended Warranty for InSb GasFindIR .....	2663
One year extended warranty for ix series .....	1050, 1440
One year extended warranty for P6xx series .....	3727
One year extended warranty for SC6x0 series .....	4148
One year extended warranty for T2xx-4xx series .....	1720, 2131
One year extended warranty for T6xx series .....	2351
Optical Cleaning Kit .....	2674
Option for P/B6xx: Radiometric IR video streaming using FireWire .....	3693, 3904

## P

PC-Card™ > 100 MB .....	4512
PC-Card™ adapter for CompactFlash™ card .....	4513
PEDESTAL MOUNT ASSY - F-SERIES .....	3090
PEDESTAL MOUNT ASSY - PT-SERIES .....	3230
Personal Video Recorder .....	2671
PoE injector .....	2707
PoE injector, incl.cables .....	2852
POLE ADAPTER - F-SERIES .....	3091
POLE ADAPTER - PT-SERIES .....	3232
Pouch .....	1686, 1886, 2097
Pouch FLIR Ex and ix series .....	1030, 1433
Pouch for FLIR Exx series .....	1447
Pouch for FLIR T6xx and T4xx series .....	2095, 2313
Power cable, pigtailed .....	2882, 3061, 3402
Power cord EU .....	2869, 3387
Power cord UK .....	2873, 3391
Power cord US .....	2871, 3389
Power supply .....	4330, 4384, 4425, 4546, 4648
POWER SUPPLY ASSY, 24VAC - PT-series .....	3233
Power supply for A3XX f, IP66. ....	2877, 3056, 3395
Power supply USB-micro .....	1432
Power supply, incl. multi plugs .....	1181,
1310, 1466, 1679, 1879, 2083, 2295, 2514, 3677, 3888, 4093	
Power supply, incl. multi plugs, for A3xx, A3xxsc, A6xx and A6xxsc .....	2875, 3393
Power supply/charger with EU, UK, US and AU plugs .....	1026
Protective cap for LEMO connector (headset) .....	4400, 4440
Protective cap for LEMO connector (USB/RS-232 and RC) .....	4401, 4441
Protective Case for CM7x and CM8x Series .....	3619
Protective Case for DM9x and IM7x Series .....	3621
Protective case for TG165 .....	3622
Protective plastic window .....	4379, 4420, 4643
Protective window .....	4378, 4419, 4642
Protective window (fits 24°) with case .....	3672, 3883, 4088

## R

Remote control, incl. 4" LCD .....	4361, 4404
Repeat Certification EN473 IT Category 1 .....	1152, 1635, 1834,
2034, 2245, 2485, 3847, 4052, 4287, 4837	
Replaceable External Moisture Pin Probe for MR77 .....	3623
Replaceable T/RH Probe for MR77 .....	3625
Retractable lanyard .....	2698
RS-232 cable, 1.5 m/4.9 ft. ....	4390, 4431, 4519, 4553

## S

S-Video cable, 1.5 m/4.9 ft. ....	4394
-----------------------------------	------



## Index

---

Shield against stray light from LCD, for ThermaCAM™ Scout .....	4314
Spring for IR lens, f = 17 mm .....	4540
Spring for IR lens, f = 9.2 mm .....	4539
SS IR window 2" .....	1456, 2060, 2271, 3660, 3871, 4076
SS IR window 3" .....	1458, 2062, 2273, 3662, 3873, 4078
SS IR window 4" .....	1460, 2064, 2275, 3664, 3875, 4080
Strap lanyard .....	2699
Sun shield .....	1449, 2098, 4313

## T

T126889ACC .....	3408
T127605ACC .....	2712
T127606ACC .....	2713
T127722ACC .....	2698
T127724ACC .....	2697
T128379ACC .....	963
T128390ACC .....	2851
T128391ACC .....	2850
T128664ACC .....	958
T197000 .....	1672, 1871, 2078, 2867, 3054, 3226
T197006 .....	1873
T197187 .....	3670, 3881, 4086
T197188 .....	3667, 3878, 4083
T197189 .....	3669, 3880, 4085
T197190 .....	3668, 3879, 4084
T197214 .....	1665, 1864, 2072, 2861
T197215 .....	1663, 1862, 2070, 2859
T197247 .....	1188, 1317
T197262 .....	3692, 3903, 4108
T197341 .....	3671, 3882, 4087
T197343 .....	3672, 3883, 4088
T197384 .....	2507
T197385 .....	2505
T197386 .....	2506
T197387 .....	2503
T197388 .....	2504
T197407 .....	2863
T197408 .....	1667, 1866, 2074
T197411 .....	2864
T197412 .....	1669, 1868, 2076
T197415 .....	2865
T197482 .....	2530
T197555 .....	2528
T197619 .....	1027
T197650 .....	1180, 1309, 1678, 1878, 2082
T197667 .....	1179, 1308, 1677, 1877, 2081
T197692 .....	2512, 3675, 3886, 4091
T197771ACC .....	1477, 2101, 2321, 3696, 3907, 4111
T197870ACC .....	2886, 3406
T197871ACC .....	2884, 3404
T197896 .....	2293, 3385
T197914 .....	2277, 3369
T197915 .....	2281, 3373
T197921 .....	3693, 3904
T197922 .....	2279, 3371
T198059 .....	2283, 3375
T198060 .....	2285, 3377
T198065 .....	2289, 3379
T198066 .....	2291, 3383
T198113 .....	1507

## Index

---

T198125.....	1444, 2693
T198165.....	3381
T198166.....	2287
T198258.....	4355
T198267.....	2508
T198288.....	4385, 4426
T198298.....	2509
T198310ACC .....	2696
T198322.....	2694
T198341ACC .....	1445
T198342ACC .....	2714
T198348.....	2706
T198349.....	2705
T198360.....	2511
T198361.....	2510
T198370ACC .....	1685, 1885, 2094
T198371.....	2708
T198392.....	2709
T198416ACC .....	2699
T198441ACC .....	2701
T198457ACC .....	2700
T198482.....	1031
T198484.....	1447
T198485.....	1449
T198486.....	1448
T198487.....	1446
T198493.....	2098
T198495.....	2095, 2313
T198497.....	2315
T198498.....	2317
T198499.....	2099, 2319
T198506.....	2298
T198508.....	3694, 3905, 4109
T198509.....	1177, 1306, 1469, 1675, 1875, 2091, 2305, 2524, 3687, 3898, 4103
T198511.....	2517, 3680, 3891, 4096
T198528.....	1428
T198529.....	1030, 1433
T198530.....	1429
T198531.....	1430
T198532.....	1431
T198533.....	1434
T198534.....	1432
T198566.....	1018, 2563, 2913, 3086, 3427, 4145
T198567.....	1021, 2560, 2910, 3083, 3424, 4142
T198583.....	1010, 1045, 1435, 1491, 1700, 1900, 2115, 2335, 2543, 2721, 2896, 3069, 3415, 3711, 3922, 4126
T198584.....	997, 1485, 1694, 1894, 2109, 2329, 2537, 2715, 2890, 3063, 3409, 3705, 3916, 4120
T198585.....	1015, 2548
T198586.....	964, 1042, 1189, 1192, 1318, 1321, 1479, 1482, 1688, 1691, 1888, 1891, 2103, 2106, 2323, 2326, 2531, 2534, 3699, 3702, 3910, 3913, 4114, 4117, 4352, 4356, 4362, 4365, 4405, 4408, 4445, 4448
T198625ACC .....	2311
T198696.....	976, 1199, 1328, 1714, 1914, 4528, 4562
T198697.....	967, 1202, 1331, 1717, 1917, 4531, 4565
T198731.....	985
T198821.....	2853
T199012.....	988
T199013.....	979
T199014.....	970

## Index

---

T199019.....	2852
T199042.....	991
T199043.....	982
T199044.....	973
T199057.....	3568
T199080.....	3571
T199082.....	3570
T199084.....	3569
T199767.....	1205
T199771.....	3728
T199802.....	1721, 2132
T199803.....	2917
T199806.....	1050, 1440
T199810.....	4148
T199811.....	3727
T199812.....	3938
T199815.....	1720, 2131
T199817.....	1920
T199819.....	2916
T199825.....	2566
T199827.....	3430
T199828.....	3939
T199829.....	4149
T199830.....	1921
T199831.....	3431
T199832.....	1334
T199833.....	1051
T199834.....	2567
T199836.....	2351
T199837.....	1509
T199838.....	2353
T199839.....	1510
T910711.....	1026
T910737.....	1038
T910814.....	1181, 1310, 1466, 1679, 1879, 2083, 2295, 2514, 3677, 3888, 4093
T910815ACC .....	2526
T910816ACC .....	2527
T910891ACC .....	2309
T910922.....	2875, 3393
T910930ACC .....	2307
T911093.....	1028, 1442, 2052, 2263
T911112.....	2707
T911182.....	2877, 3056, 3395
T911183.....	2711
T911230ACC .....	1471, 2086, 2300, 2519, 3682, 3893, 4098
T951004ACC .....	2703, 2880, 3059, 3400
T951235ACC .....	3698, 3909, 4113
T951387.....	1687, 1887, 2529, 3695, 3906, 4110
TA10.....	3621
TA11.....	3619
TA12.....	3613
TA13.....	3622
TA14.....	3607
TA50.....	3617
TA55.....	3605
TA60.....	3627
TA70.....	3608
TA80.....	3610
Table stand kit.....	2709
TG165 .....	922

ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II NTSC .....	511
ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II PAL .....	508
ThermaCAM™ GasFindIR 25 mm lens Class I Div II NTSC .....	517
ThermaCAM™ GasFindIR 25 mm lens Class I Div II PAL .....	514
ThermaCAM™ PC RS-232 cable, 1.5 m/4.9 ft.....	4307
ThermaCAM™ PC USB cable, 1.5 m./4.9 ft.....	4306
Thermocouple Probe with Adapter .....	3627
ThermoVision LabVIEW Digital Toolkit Ver. 3.3.....	1018, 2563, 2913, 3086, 3427, 4145
ThermoVision™ System Developers Kit Ver. 2.6 .....	1021, 2560, 2910, 3083, 3424, 4142
Tool belt.....	1028, 1442, 2052, 2263
Transport case Ax5 .....	2708
Transport case Exx.....	1445
Transport case Kxx .....	2701
Travel and lodging expenses instructor (Center and South Africa).....	1154, 1637, 1836, 2036, 2247, 2487, 2642, 2834, 3038, 3210, 3353, 3552, 3849, 4054, 4289, 4343, 4839
Travel and lodging expenses instructor (Europe, Balkans, Turkey, Cyprus).....	1157, 1640, 1839, 2039, 2250, 2490, 2645, 2837, 3041, 3213, 3356, 3555, 3852, 4057, 4292, 4337, 4842
Travel and lodging expenses instructor (other) .....	1160, 1643, 1842, 2042, 2253, 2493, 2648, 2840, 3044, 3216, 3359, 3558, 3855, 4060, 4295, 4349, 4845
Travel and lodging expenses instructor (Russia/GUS, Middle East, North Africa) .....	1163, 1646, 1845, 2045, 2256, 2496, 2651, 2843, 3047, 3219, 3362, 3561, 3858, 4063, 4298, 4340, 4848
Travel and lodging expenses instructor (various) .....	1166, 1649, 1848, 2048, 2259, 2499, 2654, 2846, 3050, 3222, 3365, 3564, 3861, 4066, 4301, 4346, 4851
Tripod Adapter .....	1448, 2317
Tripod Adapter, Kxx .....	2700
Two-channel camera, 5.8 mm diameter with 1 m probe .....	3629
Two-way 6 mm (0.24") articulating camera with 1 m (3.3') probe with long focus.....	3631
Two-way 6 mm (0.24") articulating camera with 1 m (3.3') probe with macro short focus .....	3633
Two-way 6 mm (0.24") articulating camera with 2 m (78") probe with long focus.....	3635
Two-way 6 mm (0.24") articulating camera with 2 m (78") probe with short macro focus.....	3637
<b>U</b>	
USB cable.....	1434
USB cable Std A <-> Mini-B.....	1039, 1184, 1313, 1473, 1682, 1882, 2088, 2302, 2521, 3397, 3684, 3895, 4100
USB cable, 1.5 m/4.9 ft.....	4389, 4430
<b>V</b>	
Video cable .....	1476, 2093
Video cable RCA <-> RCA, 2 m/6.6 ft. ....	4393, 4434
Video cable, 3.0 m/9.8 ft. ....	2879, 3058, 4520, 4554
Video cable, RCA <-> RCA, 2.0 m/6.6 ft.....	3689, 3900, 4105
Video lamp for digital camera.....	4402, 4442
Video lens 12°.....	4397, 4437
VP50 .....	925
VP52 .....	927
VS70 .....	929
VS70-1.....	931
VS70-1-W.....	934
VS70-2.....	938
VS70-3.....	941
VS70-3-W.....	944
VS70-KIT.....	948
VS70-KIT-W .....	952

VSA2-1 .....	3631
VSA2-1-W.....	3645
VSA2-1M.....	3633
VSA2-1M-W .....	3647
VSA2-2 .....	3635
VSA2-2-W.....	3649
VSA2-2M.....	3637
VSA2-2M-W .....	3651
VSA4-1-W.....	3643
VSA4-1M-W .....	3641
VSC2-58-1FM .....	3629
VSC25 .....	3575
VSC28 .....	3577
VSC39-1FM .....	3579
VSC41-2RM.....	3585
VSC58-1R .....	3589
VSC58-1RM.....	3591
VSC58-20M .....	3597
VSC58-2R .....	3593
VSC58-2RM.....	3595
VSC58-30M .....	3599
VSC65-12S.....	3581
VSC65-17S.....	3587
VSC80-1R .....	3601
VSC80-2R .....	3603
VSS-20 .....	3573
VSS-30 .....	3583
VST .....	3639
<b>W</b>	
WALL MOUNT ASSY - F-SERIES.....	3092
WALL MOUNT ASSY - PT-SERIES .....	3234
Wi-Fi USB micro adapter .....	1687, 1887, 2529, 3695, 3906, 4110
Wireless four-way articulating camera, focal length 25–60 mm .....	3641
Wireless four-way articulating camera, focal length 60 mm to infinity .....	3643
Wireless handset for the VS70 system .....	3639
Wireless two-way 6 mm (0.24") articulating camera with 1 m (3.3') probe with long focus .....	3645
Wireless two-way 6 mm (0.24") articulating camera with 1 m (3.3') probe with macro short focus.....	3647
Wireless two-way 6 mm (0.24") articulating camera with 2 m (78") probe with long focus .....	3649
Wireless two-way 6 mm (0.24") articulating camera with 2 m (78") probe with short macro focus .....	3651



---

**Corporate Headquarters**

FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
Telephone: +1-503-498-3547

**Website**

<http://www.flir.com>

**Customer support**

<http://support.flir.com>

**Copyright**

© 2015, FLIR Systems, Inc. All rights reserved worldwide.

**Disclaimer**

Specifications subject to change without further notice. Models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.